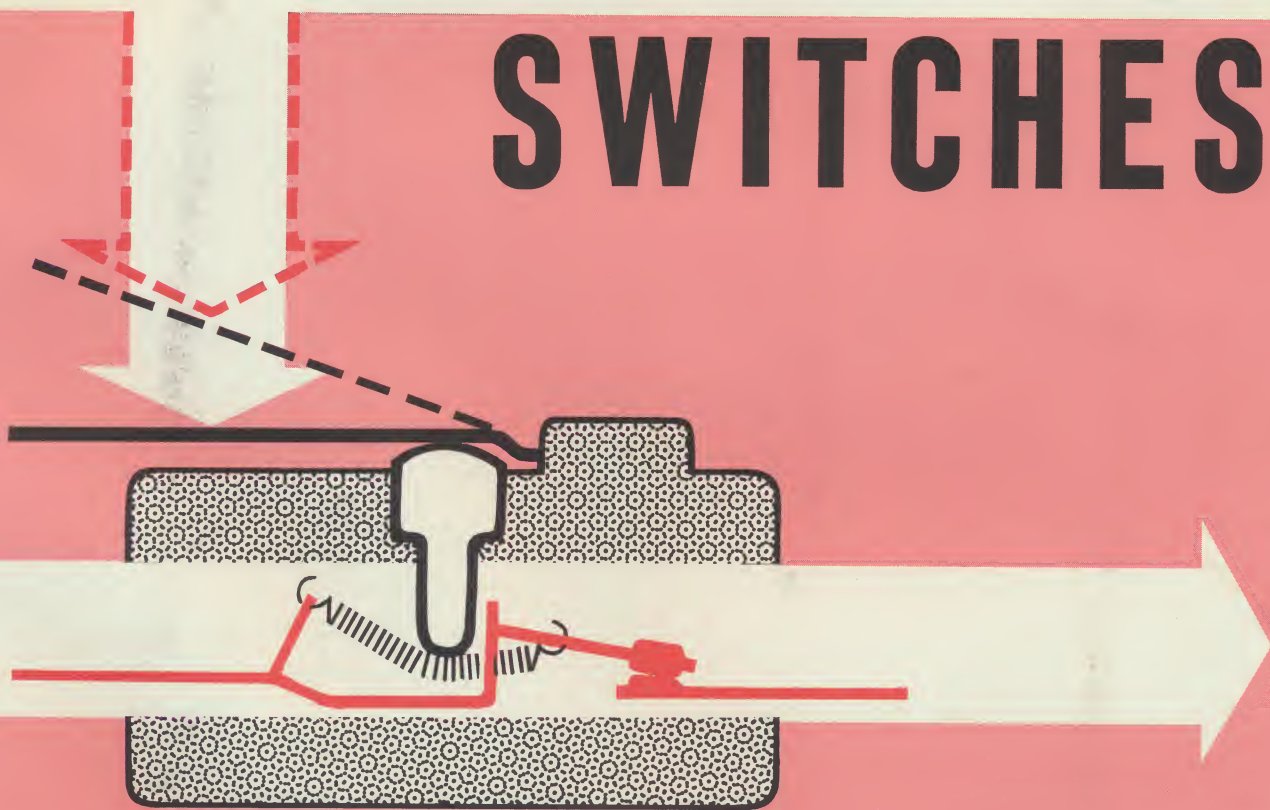




**PRECISION
COIL-SPRING**

SNAP-ACTION SWITCHES



CHERRY ENGINEERING

CHERRY MANUFACTURING

specialization that results in quality

Cherry Electrical Products Corporation
HIGHLAND PARK, ILLINOIS, U.S.A.

CATALOG
NUMBER **C-65**



CHERRY offers you . . .

- A complete line of precision snap-action switches.
- Engineering service . . .
 - Application engineering.
 - Basic design.
 - Complete electrical and mechanical facility.
- Complete manufacturing facility . . .
 - Modern, totally air conditioned 29,000 square foot plant.
 - Punch press department equipped with automatic progressive dies.
 - Specially designed machines for efficient, reliable assembly of switches.
 - Quality control department supervision of inspection and testing throughout.
- Trained service group . . .
 - Factory trained technical representatives throughout country to provide prompt assistance with your switch design problems.
 - Over ten years experience specializing in design, manufacture and fabrication of millions of service-proven switches.



Cherry Electrical Products Corporation

1650 OLD DEERFIELD ROAD • HIGHLAND PARK, ILLINOIS

PRICE LIST AND QUANTITY DISCOUNT SCHEDULE

E13 SERIES

EFFECTIVE DECEMBER 1, 1964



BASIC MOMENTARY

	LIST	NET AT 2M
E13-00E SPDT	\$0.75	\$.345
E13-01E SPNO	0.72	.331
E13-02E SPNC	0.72	.331



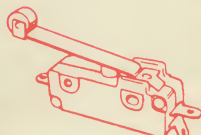
PUSH BUTTON

E13-00J SPDT	\$0.85	\$.391
E13-01J SPNO	0.81	.373
E13-02J SPNC	0.81	.373



LEVER (Standard Force)

E13-00H SPDT	\$0.95	\$.437
E13-01H SPNO	0.93	.428
E13-02H SPNC	0.93	.428



ROLLER (Standard Force)

E13-00K SPDT	\$1.08	\$.497
E13-01K SPNO	1.04	.478
E13-02K SPNC	1.04	.478



RESET

	LIST	NET AT 2M
E13-00R SPDT	\$0.87	\$.400
E13-01R SPNO	0.84	.386
E13-02R SPNC	0.84	.386



OVERTRAVEL PUSH BUTTON

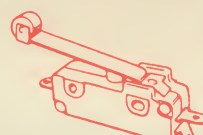
E13-00M SPDT	\$1.04	\$.478
E13-01M SPNO	1.01	.465
E13-02M SPNC	1.01	.465

12-023 Hex Nuts, 12-024 Pal Nuts or 12-025 Knurled Nuts. 0.03 .014



LEVER (Light Force)

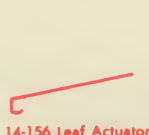
E13-50H SPDT	\$0.95	\$.437
E13-51H SPNO	0.93	.428
E13-52H SPNC	0.93	.428



ROLLER (Light Force)

E13-50K SPDT	\$1.08	\$.497
E13-51K SPNO	1.04	.478
E13-52K SPNC	1.04	.478

LOCK-IN ACTUATORS FOR E13-00E SWITCH



14-156 Leaf Actuator



14-157 Extended Leaf Actuator



A-176 Roller Actuator

	LIST	NET AT 2M
14-156 Leaf	\$.045	\$.021
14-157 Extended Leaf	.075	.035
A-176 Roller Leaf	.285	.131

(Above actuators shipped unassembled for installation on E13-00E, E13-01E and E13-02E)

E14 SERIES

BASIC

E14-00A SPDT	\$1.04	\$.478
E14-01A SPNO	1.01	.465
E14-02A SPNC	1.01	.465



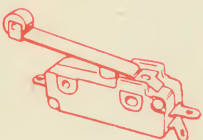
LEVER (Standard Force)

E14-00H SPDT	\$1.24	\$.570
E14-01H SPNO	1.22	.561
E14-02H SPNC	1.22	.561



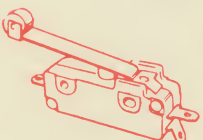
LEVER (Light Force)

E14-50H SPDT	\$1.24	\$.570
E14-51H SPNO	1.22	.561
E14-52H SPNC	1.22	.561



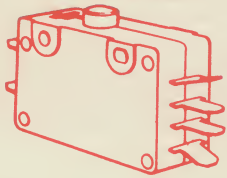
ROLLER (Standard Force)

E14-00K SPDT	\$1.37	\$.630
E14-01K SPNO	1.33	.612
E14-02K SPNC	1.33	.612

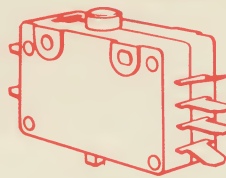


ROLLER (Light Force)

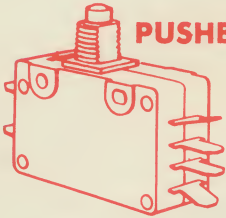
E14-50K SPDT	\$1.37	\$.630
E14-51K SPNO	1.33	.612
E14-52K SPNC	1.33	.612

E19 SERIES**BASIC**

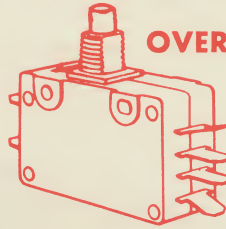
	LIST	NET AT 2M
E19-00A... DPDT	\$1.80	\$.828
E19-01A... DPST N. O.	1.77	.814
E19-02A... DPST N. C.	1.77	.814

RESET

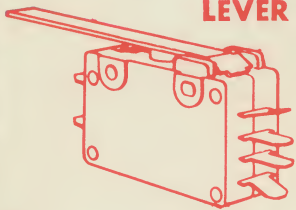
	LIST	NET AT 2M
E19-00R... DPDT	\$1.92	\$.883
E19-01R... DPST N. O.	1.89	.869
E19-02R... DPST N. C.	1.89	.869

PUSHBUTTON

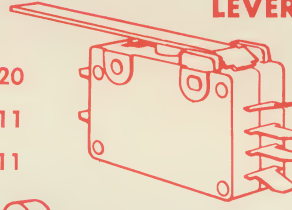
E19-00J... DPDT	\$1.90	\$.874
E19-01J... DPST N. O.	1.86	.856
E19-02J... DPST N. C.	1.86	.856

OVERTRAVEL PUSHBUTTON

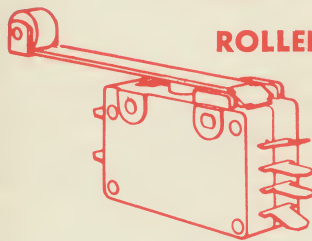
E19-00M... DPDT	\$2.10	\$.966
E19-01M... DPST N. O.	2.06	.948
E19-02M... DPST N. C.	2.06	.948

LEVER (Standard Force)

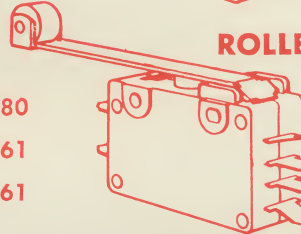
E19-00H... DPDT	\$2.00	\$.920
E19-01H... DPST N. O.	1.98	.911
E19-02H... DPST N. C.	1.98	.911

LEVER (Light Force)

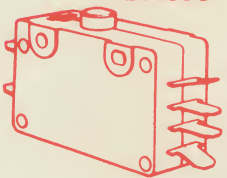
E19-50H... DPDT	\$2.00	\$.920
E19-51H... DPST N. O.	1.98	.911
E19-52H... DPST N. C.	1.98	.911

ROLLER (Standard Force)

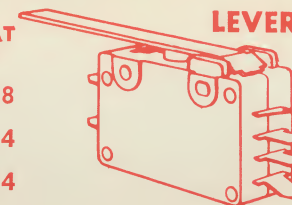
E19-00K... DPDT	\$2.13	\$.980
E19-01K... DPST N. O.	2.09	.961
E19-02K... DPST N. C.	2.09	.961

ROLLER (Light Force)

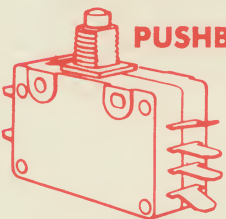
E19-50K... DPDT	\$2.13	\$.980
E19-51K... DPST N. O.	2.09	.961
E19-52K... DPST N. C.	2.09	.961

E20 SERIES**BASIC**

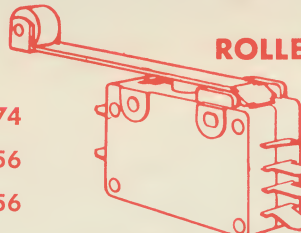
	LIST	NET AT 2M
E20-00A... DPDT	\$2.67	\$1.228
E20-01A... DPST N. O.	2.64	1.214
E20-02A... DPST N. C.	2.64	1.214

LEVER (Light Force)

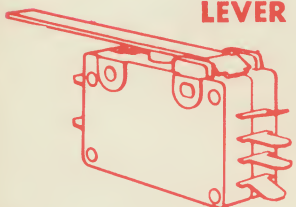
	LIST	NET AT 2M
E20-50H... DPDT	\$2.87	\$1.320
E20-51H... DPST N. O.	2.85	1.311
E20-52H... DPST N. C.	2.85	1.311

PUSHBUTTON

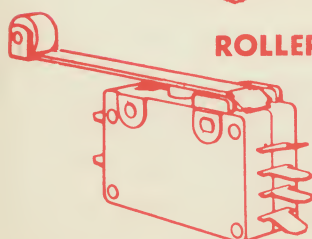
E20-00J... DPDT	\$2.77	\$1.274
E20-01J... DPST N. O.	2.73	1.256
E20-02J... DPST N. C.	2.73	1.256

ROLLER (Light Force)

E20-50K... DPDT	\$3.00	\$1.380
E20-51K... DPST N. O.	2.96	1.362
E20-52K... DPST N. C.	2.96	1.362

LEVER (Standard Force)

E20-00H... DPDT	\$2.87	\$1.320
E20-01H... DPST N. O.	2.85	1.311
E20-02H... DPST N. C.	2.85	1.311

ROLLER (Standard Force)

E20-00K... DPDT	\$3.00	\$1.380
E20-01K... DPST N. O.	2.96	1.362
E20-02K... DPST N. C.	2.96	1.362

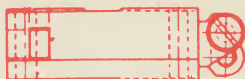
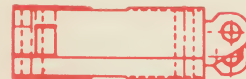
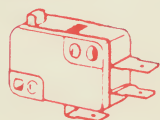
NOTES:

1. Cash Terms—
1/2% 10th and 25th, net 30 days.
2. Shipments—
F.O.B. Shipping Point, Highland Park, Ill.
3. Prices and Discounts—
Effective from date shown and are subject to change without notice.
4. Multiplier—
Net price can be determined by multiplying list price and the multiplier shown in the discount schedule.
5. Discounts—
Are offered on the basis of volume production. To warrant discount each shipment must consist of 2,000 pieces minimum, or complete order if less than 2,000 pieces.

DISCOUNT SCHEDULE (See Notes)

QUANTITY	DISCOUNT	MULTIPLIER
1 to 49	LIST	1.
50 to 99	27%	.73
100 to 499	37%	.63
500 to 999	43%	.57
1000 to 1999	48%	.52
2000 to 4999	54%	.46

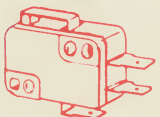
For prices on quantities of 5000 and over consult our nearest representative (see listing) or contact factory direct.

E33 SERIES**QC TERMINALS****SCREW TERMINALS****SOLDER TERMINALS****BASIC**

	LIST	NET AT 2M
E33-00A SPDT	\$0.78	\$.359
E33-01A SPNO	0.76	.350
E33-02A SPNC	0.76	.350

	LIST	NET AT 2M
E33-10A . . .	\$0.96	\$.442
E33-11A . . .	0.88	.405
E33-12A . . .	0.88	.405

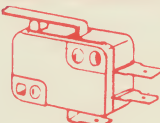
	LIST	NET AT 2M
E33-20A . . .	\$0.78	\$.359
E33-21A . . .	0.76	.350
E33-22A . . .	0.76	.350

LEVER

E33-00H SPDT	\$0.91	\$.419
E33-01H SPNO	0.88	.405
E33-02H SPNC	0.88	.405

E33-10H . . .	\$1.09	\$.501
E33-11H . . .	1.00	.460
E33-12H . . .	1.00	.460

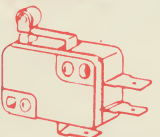
E33-20H . . .	\$0.91	\$.419
E33-21H . . .	0.88	.405
E33-22H . . .	0.88	.405

EXTENDED LEVER

E33-50H SPDT	\$0.93	\$.428
E33-51H SPNO	0.90	.414
E33-52H SPNC	0.90	.414

E33-60H . . .	\$1.11	\$.511
E33-61H . . .	1.02	.469
E33-62H . . .	1.02	.469

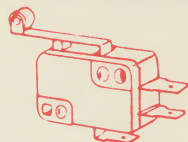
E33-70H . . .	\$0.93	\$.428
E33-71H . . .	0.90	.414
E33-72H . . .	0.90	.414

ROLLER

E33-00K SPDT	\$0.98	\$.451
E33-01K SPNO	0.95	.437
E33-02K SPNC	0.95	.437

E33-10K . . .	\$1.16	\$.534
E33-11K . . .	1.07	.492
E33-12K . . .	1.07	.492

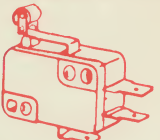
E33-20K . . .	\$0.98	\$.451
E33-21K . . .	0.95	.437
E33-22K . . .	0.95	.437

EXTENDED ROLLER

E33-50K SPDT	\$1.07	\$.492
E33-51K SPNO	1.04	.478
E33-52K SPNC	1.04	.478

E33-60K . . .	\$1.25	\$.575
E33-61K . . .	1.16	.534
E33-62K . . .	1.16	.534

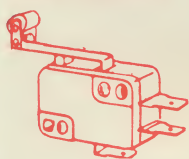
E33-70K . . .	\$1.07	\$.492
E33-71K . . .	1.04	.478
E33-72K . . .	1.04	.478

ROLLER (One Way Action)

E33-00P SPDT	\$1.23	\$.566
E33-01P SPNO	1.20	.552
E33-02P SPNC	1.20	.552

E33-10P . . .	\$1.41	\$.649
E33-11P . . .	1.32	.607
E33-12P . . .	1.32	.607

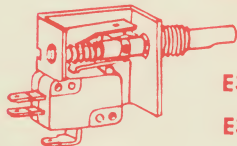
E33-20P . . .	\$1.23	\$.566
E33-21P . . .	1.20	.552
E33-22P . . .	1.20	.552

EXTENDED ROLLER (One Way Action)

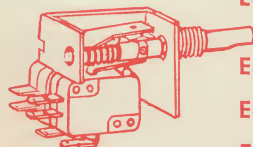
E33-50P SPDT	\$1.32	\$.607
E33-51P SPNO	1.29	.593
E33-52P SPNC	1.29	.593

E33-60P . . .	\$1.50	\$.690
E33-61P . . .	1.41	.649
E33-62P . . .	1.41	.649

E33-70P . . .	\$1.32	\$.607
E33-71P . . .	1.29	.593
E33-72P . . .	1.29	.593

PUSH-PUSH

	LIST	NET AT 2M
E33-00G SPDT	\$1.75	\$.805
E33-01G SPNO	1.72	.791
E33-02G SPNC	1.72	.791



E33-50G DPDT	\$2.50	\$1.150
E33-51G DPST-NO	2.45	1.127
E33-52G DPST-NC	2.45	1.127

E23 SERIES

To order E23, Light Force, 5 Amp switch, use corresponding E33 Series number and substitute prefix E23 for E33. Prices are the same. For example: to order Light Force Extended Hinged Lever with solder terminal, E33-70H becomes E23-70H.

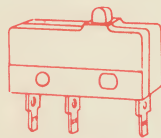
E34 SERIES

To order E34, 15 Amp switch, use corresponding E33 Series numbers and substitute E34 prefix for E33. Prices are the same. For example: to order 15 Amp, Extended Hinged Lever with solder terminals, E33-70H becomes E34-70H.

NOTE: One way action switch not available in E23 version.

E62 SERIES**BASIC****SOLDER TERMINALS**

	LIST	NET AT 2M
E62-10A SPDT	\$1.22	\$.561
E62-11A SPNO.	1.22	.561
E62-12A SPNC.	1.22	.561

**Q.C. TERMINALS**

	LIST	NET AT 2M
E62-00A.....	\$1.22	\$.561
E62-01A.....	1.22	.561
E62-02A.....	1.22	.561

**DEEP WELL TERMINALS**

	LIST	NET AT 2M
E62-20A.....	\$1.22	\$.561
E62-21A.....	1.22	.561
E62-22A.....	1.22	.561

LEVER

E62-10H SPDT	\$1.32	\$.607
E62-11H SPNO.	1.32	.607
E62-12H SPNC.	1.32	.607

E62-00H.....	\$1.32	\$.607
E62-01H.....	1.32	.607
E62-02H.....	1.32	.607

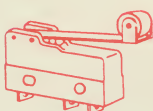
E62-20H.....	\$1.32	\$.607
E62-21H.....	1.32	.607
E62-22H.....	1.32	.607

LEVER (High Lever Ratio)

E62-60H SPDT	\$1.32	\$.607
E62-61H SPNO.	1.32	.607
E62-62H SPNC.	1.32	.607

E62-50H.....	\$1.32	\$.607
E62-51H.....	1.32	.607
E62-52H.....	1.32	.607

E62-70H.....	\$1.32	\$.607
E62-71H.....	1.32	.607
E62-72H.....	1.32	.607

ROLLER

E62-10K SPDT	\$1.50	\$.690
E62-11K SPNO.	1.50	.690
E62-12K SPNC.	1.50	.690

E62-00K.....	\$1.50	\$.690
E62-01K.....	1.50	.690
E62-02K.....	1.50	.690

E62-20K.....	\$1.50	\$.690
E62-21K.....	1.50	.690
E62-22K.....	1.50	.690

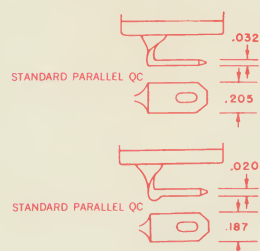
ROLLER (High Lever Ratio)

E62-60K SPDT	\$1.50	\$.690
E62-61K SPNO.	1.50	.690
E62-62K SPNC.	1.50	.690

E62-50K.....	\$1.50	\$.690
E62-51K.....	1.50	.690
E62-52K.....	1.50	.690

E62-70K.....	\$1.50	\$.690
E62-71K.....	1.50	.690
E62-72K.....	1.50	.690

To order E61, Light Force, 5 Amp switch, use corresponding E62 Series number and substitute prefix E61 for E62. Prices are the same. For example: to order Light Force Hinged Lever with Q.C. terminals, E62-00H becomes E61-00H.

E61 SERIES**Q.C. TERMINALS****CLOCKWISE ACTUATION**

	LIST	NET AT 2M
E51-00B SPDT	\$2.12	\$.975
E51-01B SPNO	2.12	.975
E51-02B SPNC	2.12	.975

Q.C. TERMINALS**COUNTER-CLOCKWISE ACTUATION**

E51-00E SPDT	\$2.12	\$.975
E51-01E SPNO	2.12	.975
E51-02E SPNC	2.12	.975

E51 SERIES

VERTICAL TWIST QC



VERTICAL STRAIGHT QC

STANDARD PARALLEL QC used on E51-00B and E51-00E (.205 x .032)
 STANDARD PARALLEL QC used on E51-00R and E51-00T (.187 x .020)
 VERTICAL TWIST QC used on E51-50B and E51-50E (.205 x .032)
 VERTICAL TWIST QC used on E51-50R and E51-50T (.187 x .020)
 VERTICAL STRAIGHT QC used on E51-60B and E51-60E (.205 x .032)

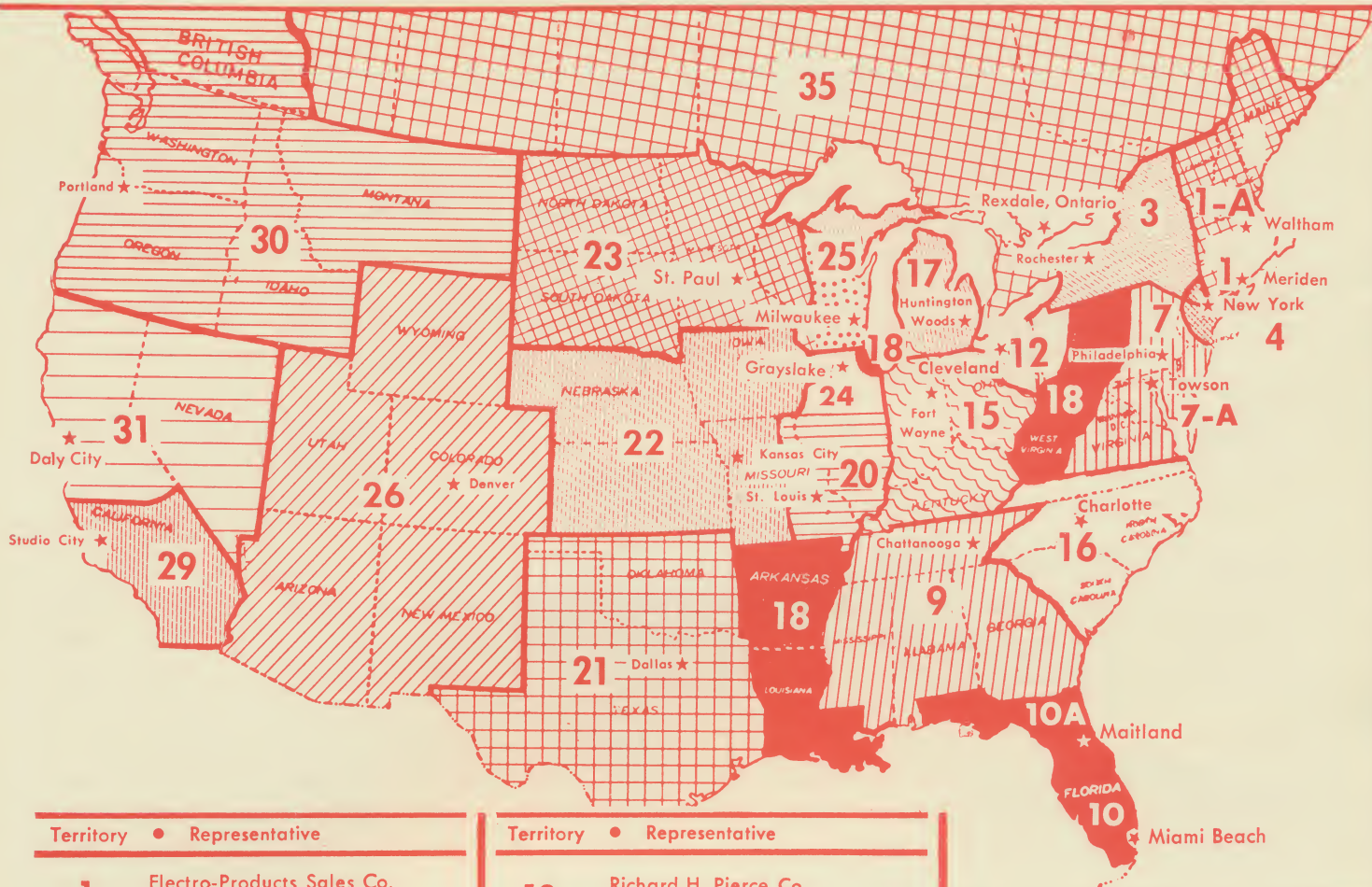
SOLDER TERMINALS**CLOCKWISE ACTUATION**

	LIST	NET AT 2M
E51-00R SPDT	\$2.12	\$.975
E51-01R SPNO	2.12	.975
E51-02R SPNC	2.12	.975

SOLDER TERMINALS**COUNTER-CLOCKWISE ACTUATION**

E51-00T SPDT	\$2.12	\$.975
E51-01T SPNO	2.12	.975
E51-02T SPNC	2.12	.975

14-014 Wire Form Actuator and 12-018 "Fastex" Washer Shipped Unassembled

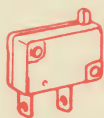


Territory	Representative
1	Electro-Products Sales Co. 150 South Broad Street Meriden, Connecticut phone: (203) 235-4040
1-A	Electro-Products Sales P.O. Box 121 Waltham, Massachusetts phone: (617) 899-1570
3	Jerry Andres Sales, Inc. P. O. Box 3803, Brighton Station Rochester 10, New York phone: (716) Browning 1-2200
4	Sydney Justin Associates 544 West 27th Street New York 1, New York phone: (212) Bryant 9-8180
7	William I. Duncan & Assoc. 5452 Charles Street Philadelphia, Penn. phone: (215) Pioneer 4-6110
7-A	William I. Duncan & Assoc., Inc. 206 W. Washington Avenue Towson 4, Maryland phone: (301) 823-2506
9	Industrial Hardgoods Co. 809-11 N. Market St. Chattanooga 5, Tenn. phone: (615) 267-0907
10	Geartner Associates, Inc. 235 Lincoln Road Miami Beach, Florida phone: (305) 531-0200 538-8266
10-A	Geartner Associates, Inc. 2101 Mohawk Trail Maitland, Florida phone: (305) 647-4000

Territory	Representative
12	Richard H. Pierce Co. 12417 Cedar Road Cleveland 6, Ohio phone: (216) Yellowstone 2-5778
15	Menze Sales 6010 Lower Huntington Road Fort Wayne, Indiana phone: (219) 747-5616
16	Robert W. Chapman & Co. P. O. Box 4430 Charlotte 4, No. Carolina phone: (704) 375-7215 or 375-3477
17	Mr. Robert H. Jackson 10534 Ludlow Avenue Huntington Woods, Michigan phone: (313) Lincoln 2-5059
18	Factory Area — Contact: Cherry Elect. Prod. Corp. 1650 Old Deerfield Road Highland Park, Illinois Phone: (312) 432-8182
20	Wells-White Company 569 Melville St. Louis 30, Missouri phone: (314) Parkview 6-2511
21	Corwin Associates P. O. Box 18112 Dallas 18, Texas phone: (214) Diamond 8-4623
22	Thro Industrial Sales Co. P. O. Box 7241 Kansas City, Missouri phone: (913) Endicott 2-2533
23	Northport Engineering, Inc. 2027 Grand Avenue St. Paul 4, Minnesota Phone: (612) 698-3841

Territory	Representative
24	Karl Dormeyer Sales Co. 455 Highway 45 Grayslake, Illinois phone: (312) BA 3-0711
25	Don Herrick Co. 4447 No. Oakland Avenue Milwaukee, Wisconsin phone: (414) WO 2-4737
26	R & D Sales Co. 1468 S. Federal Blvd. Denver 19, Colorado Phone: (303) 934-5445
29	John Rietz Company 8642 Allenwood Road Studio City, California Phone: (213) 656-5020
30	Pacific Electric Sales Co. 140 S. E. 28th Avenue Portland 14, Oregon phone: (503) Belmont 5-4137
31	Tom G. Maier Co. 375 So. Mayfair Avenue Daly City, California phone: (415) Plaza 5-5566
35	Barry Electric Ltd. 8 Taber Road Rexdale, Ontario, Canada phone: (416) 247-9650

NOTE: Discount schedule on page 2

**E15 & 16 SERIES****QUICK CONNECT TERMINALS**

	LIST	NET AT 2M
E15-00M Normally Closed	\$0.75	\$.345
E16-00M Normally Open	0.81	.373

S36 SERIES**DOUBLE POLE (Reset)**

	LIST	NET AT 2M
S36-20E.....D.P.D.T.	\$1.73	\$.796
S36-21E.....D.P.S.T. NO.....	1.67	.768
S36-22E.....D.P.S.T. NC.....	1.67	.768

DOUBLE POLE (Momentary)

	LIST	NET AT 2M
S36-40E.....D.P.D.T.	\$1.73	\$.796
S36-41E.....D.P.S.T. NO.....	1.67	.768
S36-42E.....D.P.S.T. NC.....	1.67	.768

S37 SERIES**SINGLE POLE (Reset)**

	LIST	NET AT 2M
S37-10E.....S.P.D.T.	\$1.05	\$.480
S37-11E.....S.P.S.T. NO.....	1.02	.469
S37-12E.....S.P.S.T. NC.....	1.02	.469

SINGLE POLE (Momentary)

	LIST	NET AT 2M
S37-20E.....S.P.D.T.	\$1.05	\$.480
S37-21E.....S.P.S.T. NO.....	1.02	.469
S37-22E.....S.P.S.T. NC.....	1.02	.469
Standard Nylon Insulator Adder	0.10	.046

Prices for all actuator types shown in catalog for this series are same as actuator shown below:

S23 SERIES

Prices for all 3 terminal types are same

Circuits	Flat Solder Terminals	Integral Solder Terminals	QC Terminals	List Price	Net Price @ 2M
SPDT	S23-00T	S23-00W	S23-00Z	.67	.308
SPNO	S23-01T	S23-01W	S23-01Z	.57	.262
SPNC	S23-02T	S23-02W	S23-02Z	.61	.281

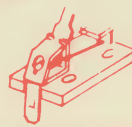
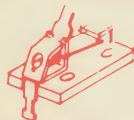
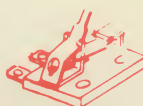
Prices for all actuator types shown in catalog for this series are same as actuator shown below:

S25 SERIES

Prices for all 3 terminal types are same

Circuits	Flat Solder Terminals	Integral Solder Terminals	QC Terminals	List Price	Net Price @ 2M
SPDT	S25-00T	S25-00W	S25-00Z	.67	.308
SPNO	S25-01T	S25-01W	S25-01Z	.57	.262
SPNC	S25-02T	S25-02W	S25-02Z	.61	.281

Prices for all actuator types shown in catalog for this series are same as actuator shown below:

S30 SERIES

Prices for all 3 terminal types are same

Circuits	Flat Solder Terminals	Integral Solder Terminals	QC Terminals	List Price	Net Price @ 2M
SPDT	S30-00T	S30-00W	S30-00Z	.69	.317
SPNO	S30-01T	S30-01W	S30-01Z	.59	.271
SPNC	S30-02T	S30-02W	S30-02Z	.64	.294

Standard Nylon Insulator Adder.....0.075 .035

Form PL9-5

PHONE: AREA CODE (312) 432-8182
TWX 312 433-2114



Cherry Electrical Products Corporation
1650 OLD DEERFIELD ROAD • HIGHLAND PARK, ILLINOIS

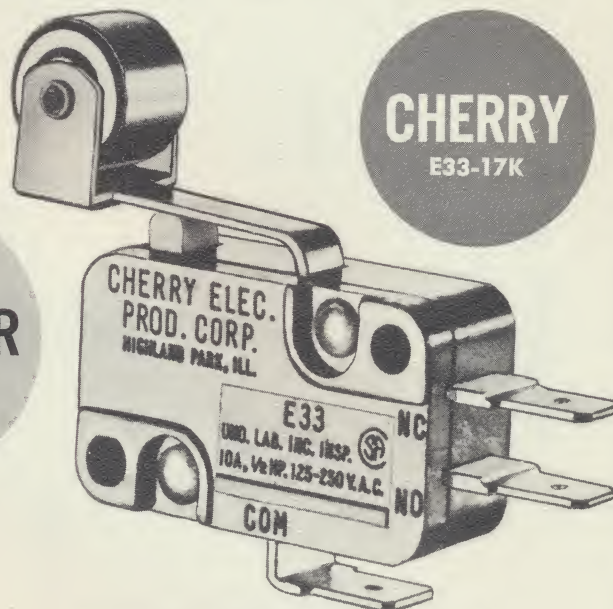
CHERRY SWITCH

WIDE

**ROLLER
LEVER**

ACTUATOR

**MINIATURE
SWITCH**



CHERRY
E33-17K

FEATURES

- Coil Spring Construction for Long Life.
- Interlocking case and cover.
- Case Pivoted Integral Hinge Actuators.
- Rock-Wipe Contact Action.

APPLICATION

The Wide Roller Lever Miniature Switch is designed to meet limited space applications where wide roller is needed. This roller type is similar to those on general purpose and appliance type switches. The $\frac{3}{8}$ " roller diameter provides $\frac{3}{32}$ " more surface width than regular miniature switch rollers.

MODIFICATIONS AVAILABLE

Circuitry — SPDT, SPNC, SPNO.

Terminals — Solder, Quick Connect, Screw terminals.

Actuators — Can be varied in length and form at modest tooling charge.

Forces — Miniature Switch is available in Light Force (E 23 Series), Standard Force (E-33 Series), and Strong Force (E-34 Series) versions.

Electrical Rating — UL and CSA approved

E-34 Series: 15 Amps, $\frac{1}{2}$ HP, 125-250 VAC

E-33 Series: 10 Amps, $\frac{1}{2}$ HP, 125-250 VAC

E-23 Series: 5 Amps, $\frac{1}{4}$ HP, 125-250 VAC

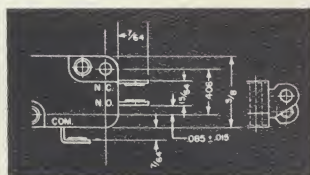
ORDERING INFORMATION

The E33-17K SPDT Wide Roller Lever Actuator Miniature Switch, QC Terminals, 10 Amps, $\frac{1}{2}$ HP 125-250 VAC. To order variation of this switch specify E33-17K type and list the modifications desired.

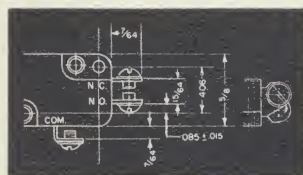
List Price \$1.09

Net Price at 2M \$0.51

For larger quantities consult factory



SOLDER TERMINALS
Available in Standard QC, Solder and Screw Terminals



SCREW TERMINALS

— the complete snap-action switch line! —

Cherry Electrical Products Corporation

1650 OLD DEERFIELD ROAD HIGHLAND PARK, ILLINOIS 60036

PHONE (312) 432-8182

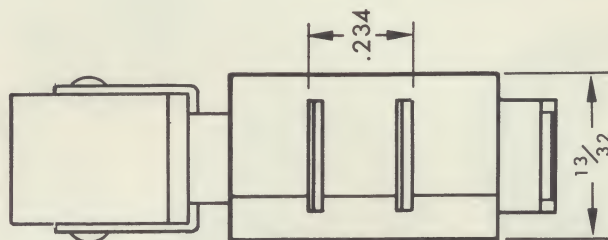
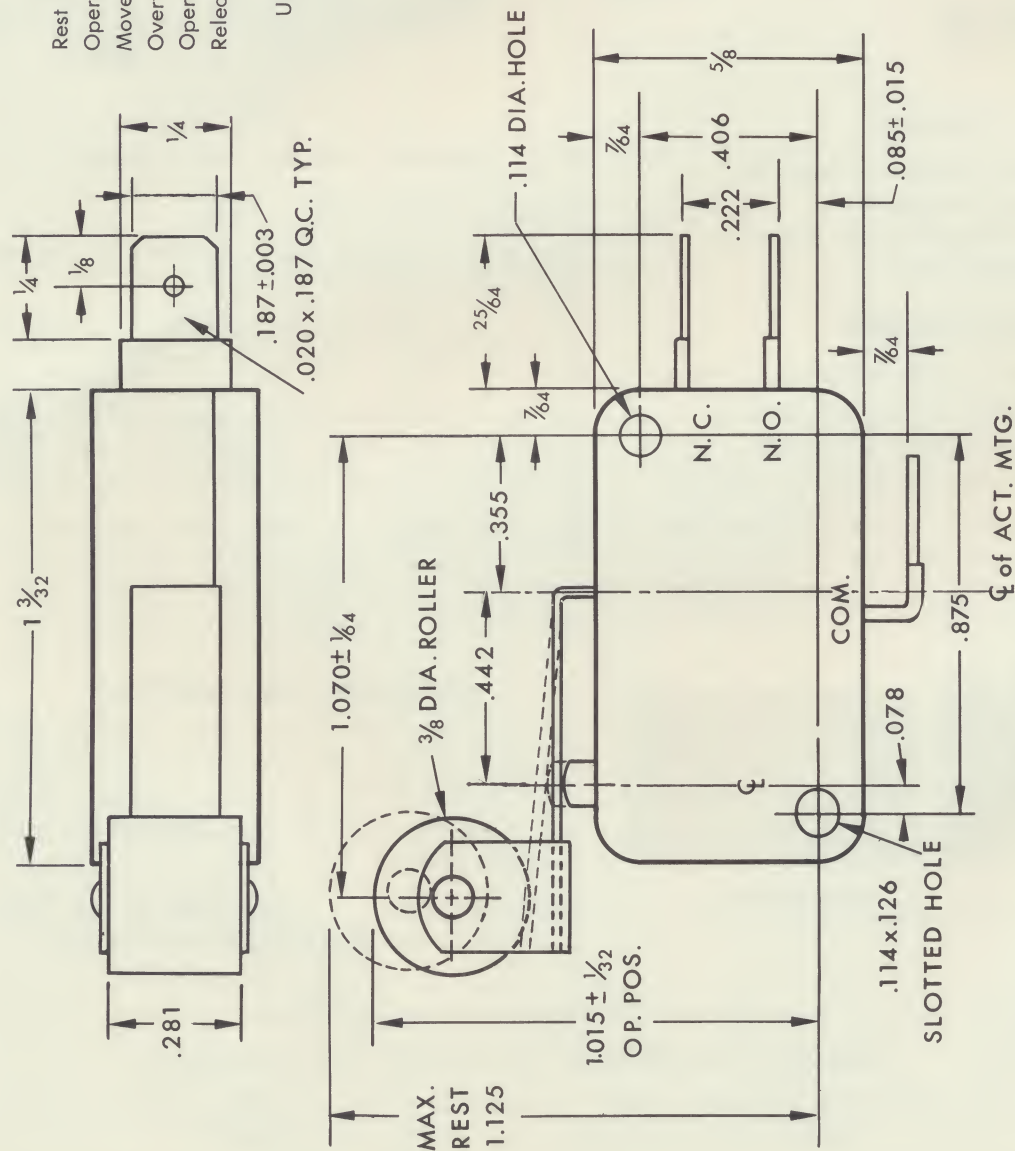
TWX 312 433-2114

CABLE ADDRESS: "CHERRY HIGHLAND PARK"



Rest Height	1.125 Max.
Operating Point	$1.015 \pm \frac{1}{32}$
Movement Differential	.024 Max.
Overtravel	.060 Min.
Operating Force	.9 Ozs. Max.
Release Force	.18 G. Min.

Und. Lab. Inc. and CSA approved 10 Amps, 1/2 H.P.
125/250 VAC.



Cherry Switch E33-17K

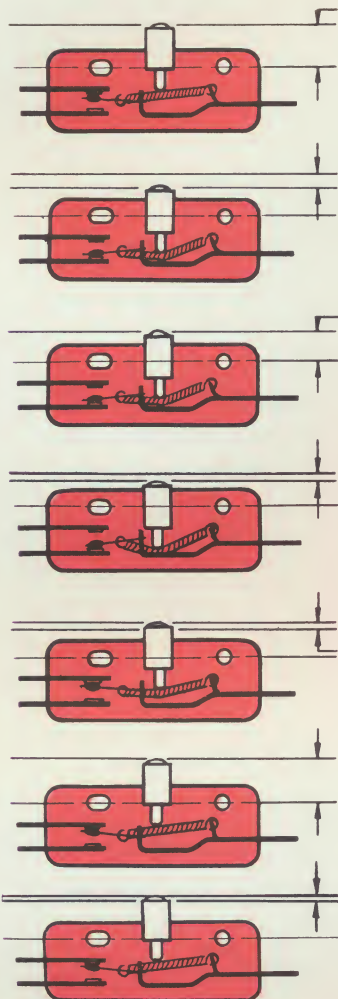


Cherry Electrical Products Corporation
0 OLD DEERFIELD ROAD HIGHLAND PARK, ILLINOIS 60036

[illegible]

TECHNICAL TERMS DEFINED

Throughout this catalog various terms are used to describe each switch. Illustrated by a closed switch, the technical terms apply to all snap-action switches.



REST POSITION . . .

is the position the switch button (or actuator) assumes when no force is exerted against it. Rest position is dimensioned from the top of the switch button (or actuator) to the mounting hole centerline, top of switch panel or other specified reference.

PRETRAVEL . . .

is the distance of button (or actuator) movement from rest position to the point of operation. Pretravel is frequently specified as maximum.

OPERATING POINT . . .

is the position of the switch button (or actuator) at which initial switch contact transfer takes place. Operating point is dimensioned from the top of the switch button (or actuator) to mounting hole centerline, top of switch panel or other specified reference point.

OVERTRAVEL . . .

is the continued switch button (or actuator) movement possible after initial contact transfer, without bottoming or damage to the switch mechanism. Overtravel is frequently specified as a minimum.

MOVEMENT DIFFERENTIAL . . .

is the button (or actuator) movement required between operating point to reset point. This is frequently dimensioned as a maximum.

RESET POINT . . .

is the point of actuation at which the second, or return contact transfer takes place. At this point the contacts snap back to their original position. Reset point is dimensioned from top of switch button (or actuator) to mounting hole centerline, top of switch panel or other specified reference point.

RESET TRAVEL . . .

is the continued switch button (or actuator) movement back from reset point.

OPERATING FORCE . . .

is the force required to depress the switch button (or actuator) to trip (operating point). Operating force is always specified as maximum.

RELEASE FORCE . . .

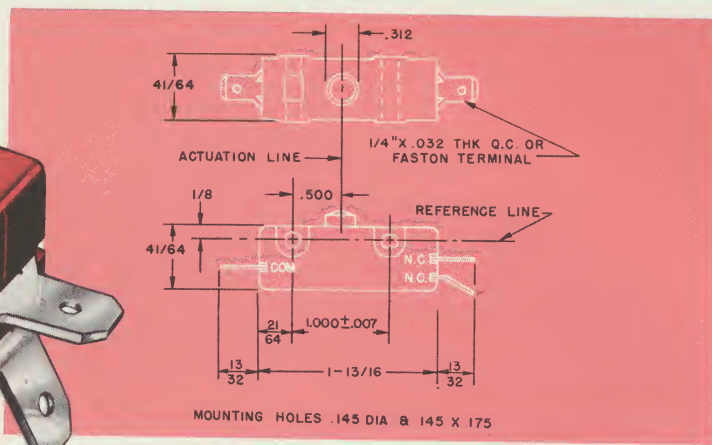
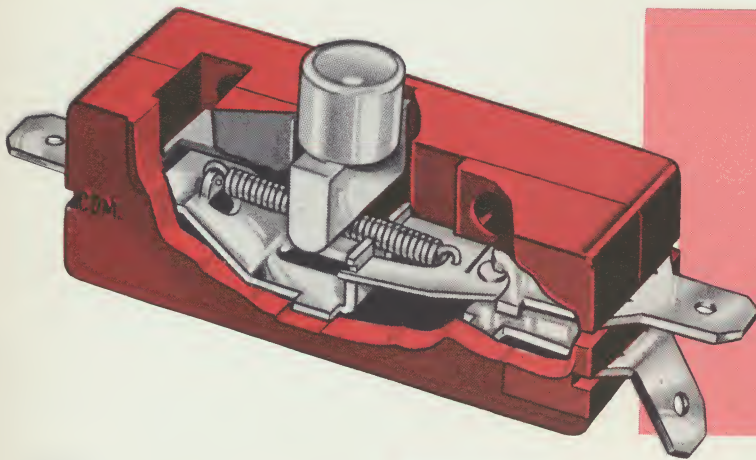
is the force required to hold the switch button (or actuator) depressed at the reset point. Release force is always specified as minimum.

NOTE

TOLERANCES—All Switches & Actuators
Fractions: $\pm \frac{1}{64}$ "—Decimals: $\pm .005$
Angles: $\pm 5^\circ$ —Unless otherwise specified

CIRCUITRY

	S.P.S.T.-N.O.	Single pole, single throw, normally open.
	S.P.S.T.-N.C.	Single pole, single throw, normally closed.
	S.P.D.T.	Single pole, double throw.
	D.P.D.T.	Double pole, double throw.

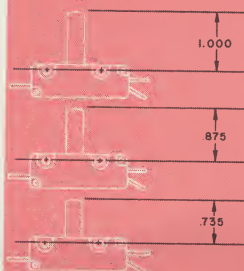


BASIC E13-00E

Features

- Large Overtravel
- Wear Resistant Nylon Button
- Integral Hinged Actuator Variations

BUTTON VARIATIONS



Length

The various button lengths shown at the left are available with no tooling charges applying. Intermediate lengths are available with a small tooling charge applying.

Color

Standard nylon colors are available with a setup charge applying on each order.

+ Operating Characteristics +	
Rest*	Max. .370 in.
Pretravel	Max. .050 in.
Operating Point*	.285 ± .035
Overtravel	Min. .100 in.
Movement Differential	Max. .015 in.
Operating Force	Max. 20 oz.

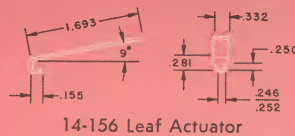
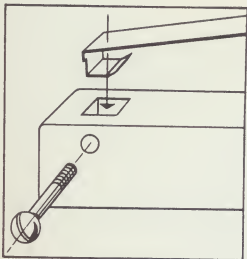
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amp, 125-250 VAC
3/4 H.P., 125 VAC — 1 1/2 H.P., 250 VAC

Ordering Information

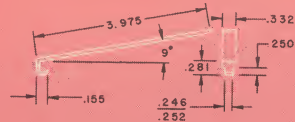
TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E13-00E	E13-01E	E13-02E

"LOCK-IN" LEAF ACTUATOR

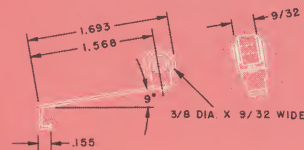
Secured in position by mounting screw. Shipped from factory loose for field installation.



14-156 Leaf Actuator



14-157 Extended Leaf Actuator



A-176 Roller Actuator

TERMINAL VARIATIONS

	UP ↑				DOWN ↓			
Angle	0°	30°	45°	85°	0°	30°	45°	85°
Common	†	*	†	*	†	†	†	†
N.O. or N.C.	†	†	†	†	†	†	†	†

† Presently available.

* Can be provided on large volume at extra charge.

LEAF ACTUATOR ORDERING INFORMATION

Order basic switch type and specify leaf actuator part number.

Example: E13-00E with 14-156 actuator

Example: E13-02E with A-176 actuator

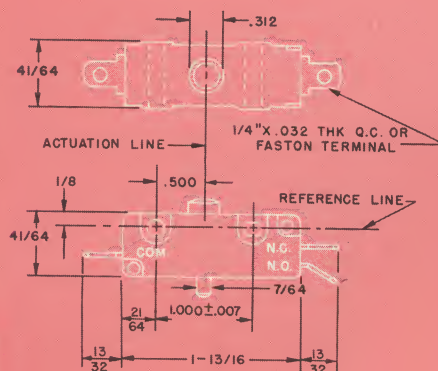
14-156 Leaf Actuator

14-157 Extended Leaf Actuator

A-176 Roller Actuator



RESET SWITCH E13-00R



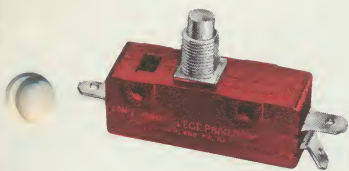
MOUNTING HOLES .145 DIA & 145 X 175

+ Operating Characteristics +	
Rest*	Max. .380 in.
Operating Button Pretravel	Max. .080 in.
Operating Point*	.269 ± .030
Overtravel (either direction)	Min. .032 in.
Movement Differential	
Operating Force	Max. 11 ozs.
Reset Button Rest	Max. .760 in.
Reset Button Pretravel	Max. .110 in.
Reset Button Operating Point	.670 ± .030

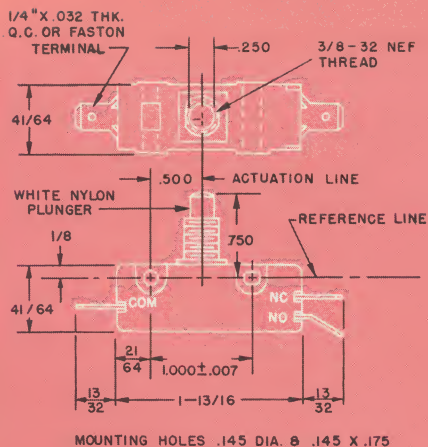
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E13-00R	E13-01R	E13-02R



PUSH BUTTON
E13-00J



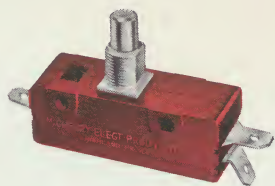
+ Operating Characteristics +

Rest*	Max. .750 in.
Pretravel	Max. .050 in.
Operating Point*	.670 ± .030
Overtravel	Min. .100 in.
Movement Differential	Max. .015 in.
Operating Force	Max. 20 oz.

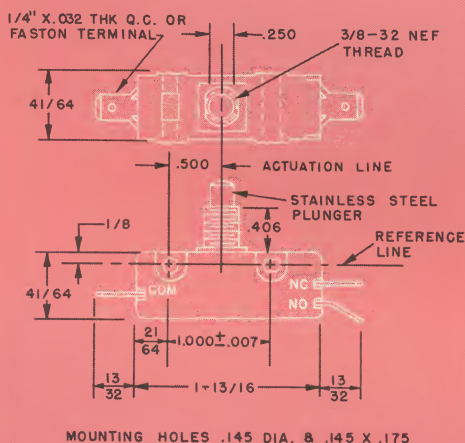
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E13-00J	E13-01J	E13-02J



OVERTRAVEL PUSH BUTTON
E13-00M



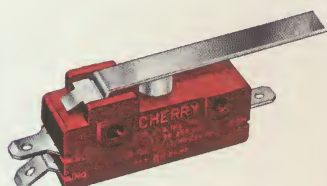
+ Operating Characteristics +

Rest*	Max. .875 in.
Pretravel	Max. .050 in.
Operating Point*	.812 ± .030
Overtravel	Min. .218 in.
Movement Differential	Max. .015 in.
Operating Force	Max. 20 oz.

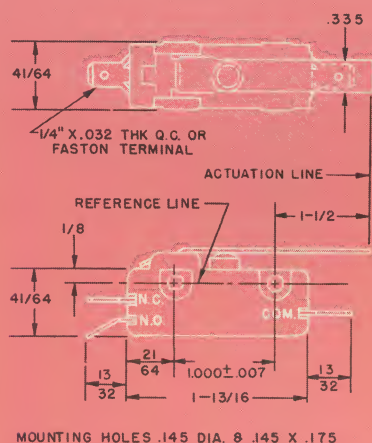
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E13-00M	E13-01M	E13-02M



LEVER
E13-00H
STANDARD FORCE



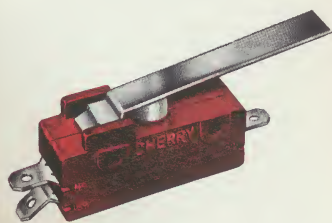
+ Operating Characteristics +

Rest*	Max. .600 in.
Pretravel	Max. .250 in.
Operating Point*	.312 ± .062
Overtravel	Min. .187 in.
Movement Differential	Max. .093 in.
Operating Force	Max. 3 1/2 ozs.

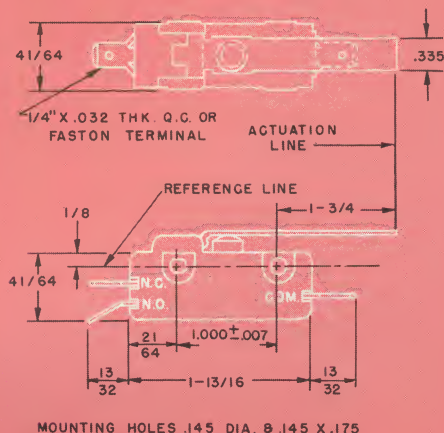
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E13-00H	E13-01H	E13-02H



LEVER
E13-50H
LIGHT FORCE



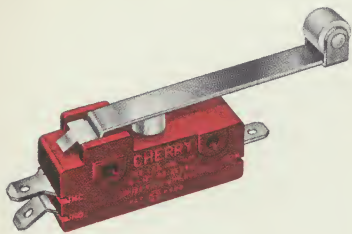
+ Operating Characteristics +

Rest*	Max. .735 in.
Pretravel	Max. .343 in.
Operating Point*	.281 ± .062
Overtravel	Min. .187 in.
Movement Differential	Max. .140 in.
Operating Force	Max. 2 1/4 ozs.

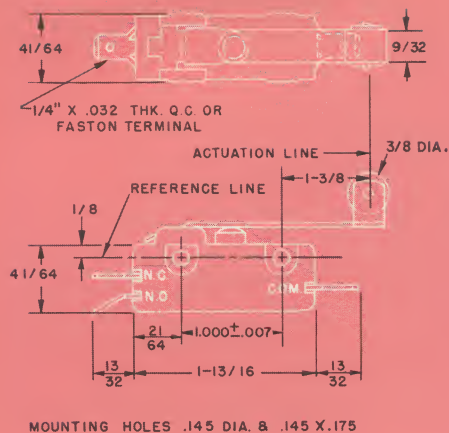
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E13-50H	E13-51H	E13-52H



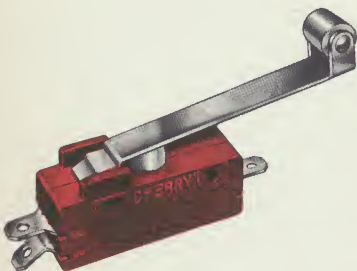
ROLLER
E13-00K
STANDARD FORCE



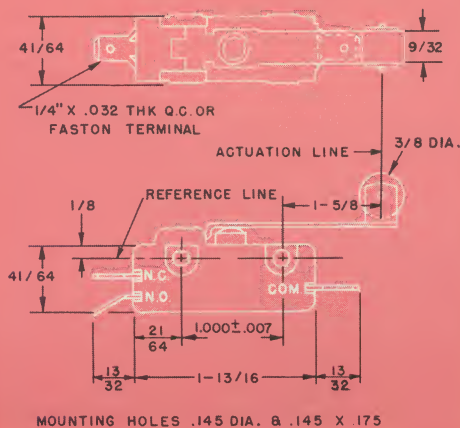
Operating Characteristics
Rest*..... Max. 1.010 in.
Pretravel..... Max. .250 in.
Operating Point*..... .718±.062
Overtravel..... Min. .187 in.
Movement Differential..... Max. .093 in.
Operating Force..... Max. 3 1/2 ozs.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E13-00K	E13-01K	E13-02K



ROLLER
E13-50K
LIGHT FORCE



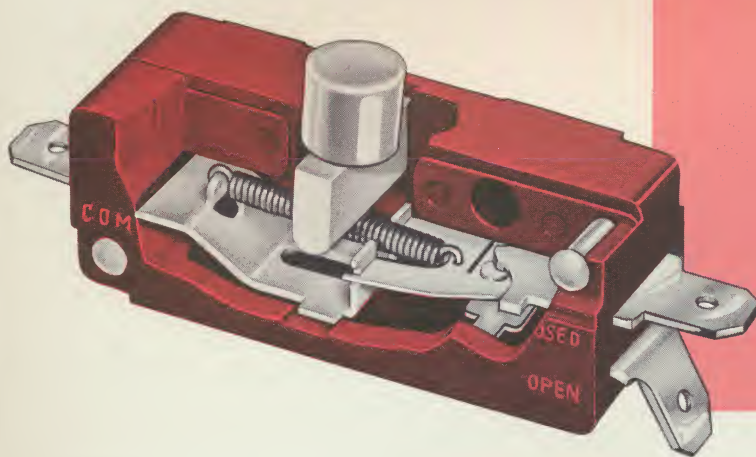
Operating Characteristics
Rest*..... Max. 1.145 in.
Pretravel..... Max. .343 in.
Operating Point*..... .687±.062
Overtravel..... Min. .187 in.
Movement Differential..... Max. .140 in.
Operating Force..... Max. 2 1/4 ozs.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

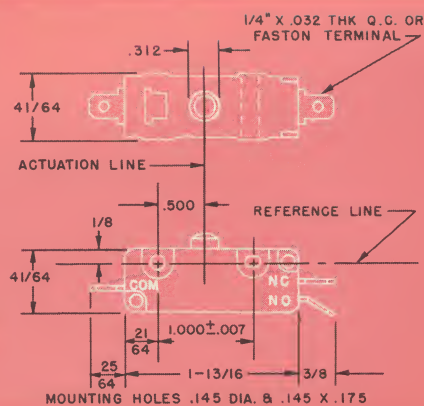
TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E13-50K	E13-51K	E13-52K

E14 SERIES

HIGH CAPACITY General Purpose Switch



BASIC
E14-00A

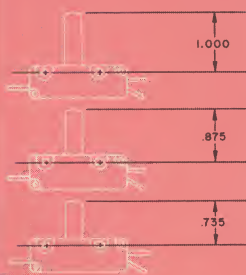


Operating Characteristics
Rest*..... Max. .380 in.
Pretravel..... Max. .075 in.
Operating Point*..... .285±.062
Overtravel..... Min. .050 in.
Movement Differential..... Max. .030 in.
Operating Force..... Max. 32 ozs.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—25 Amp, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	COMBINATION QC & SOLDER E14-00A	E14-01A	E14-02A

BUTTON VARIATIONS

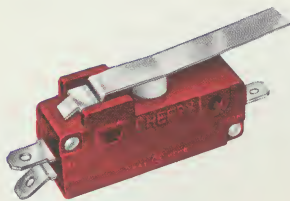


Length
The various button lengths shown at the left are available with no tooling charges applying. Intermediate lengths are available with a small tooling charge applying.

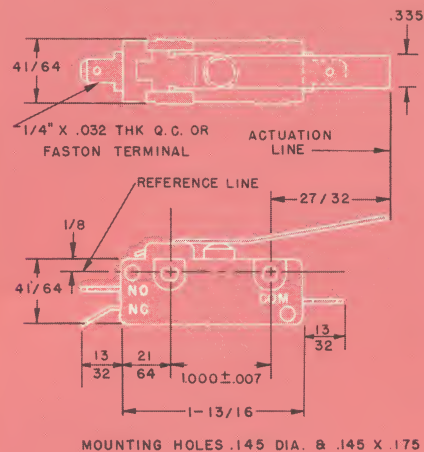
Color
Standard nylon colors are available with a setup charge applying on each order.

Features

- High Electrical Capacity
- Standard and Light Force Versions
- Large Overtravel



LEVER
E14-00H
STANDARD FORCE



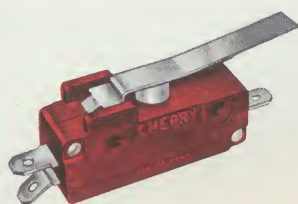
Operating Characteristics

Rest*	Max. .780 in.
Pretravel	Max. .234 in.
Operating Point*	.468 ± .062
Overtravel	Min. .150 in.
Movement Differential	Max. .090 in.
Operating Force	Max. 11 ozs.

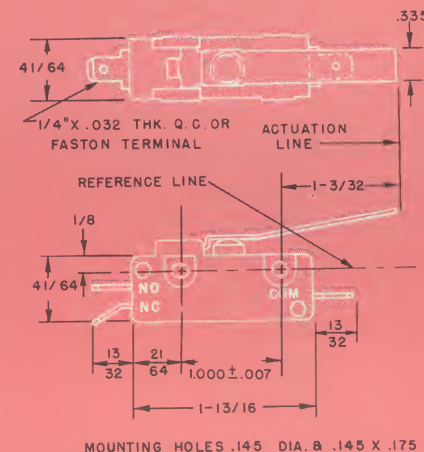
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—25 Amp, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
COMBINATION QC & SOLDER	E14-00H	E14-01H	E14-02H



LEVER
E14-50H
LIGHT FORCE



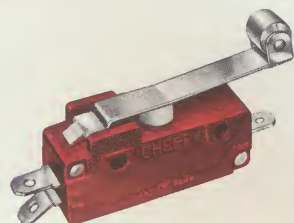
Operating Characteristics

Rest*	Max. .894 in.
Pretravel	Max. .406 in.
Operating Point*	.437 ± .062
Overtravel	Min. .234 in.
Movement Differential	Max. .150 in.
Operating Force	Max. 7 ozs.

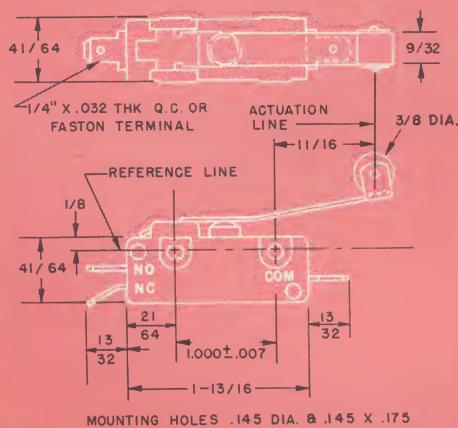
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—25 Amp, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
COMBINATION QC & SOLDER	E14-50H	E14-51H	E14-52H



ROLLER LEVER
E14-00K
STANDARD FORCE



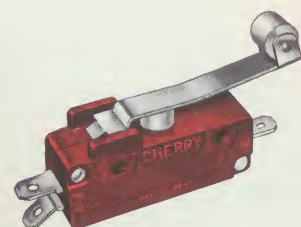
Operating Characteristics

Rest*	Max. 1.171 in.
Pretravel	Max. .218 in.
Operating Point*	.860 ± .062
Overtravel	Min. .130 in.
Movement Differential	Max. .095 in.
Operating Force	Max. 12 ozs.

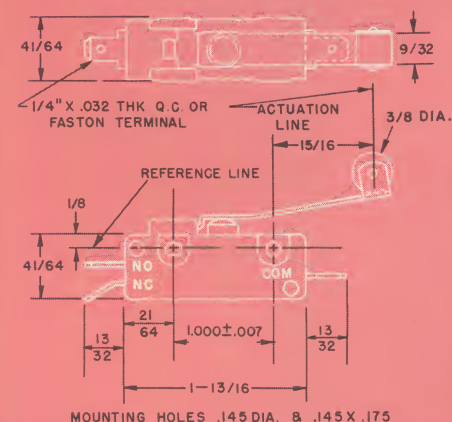
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—25 Amp, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
COMBINATION QC & SOLDER	E14-00K	E14-01K	E14-02K



ROLLER LEVER
E14-50K
LIGHT FORCE



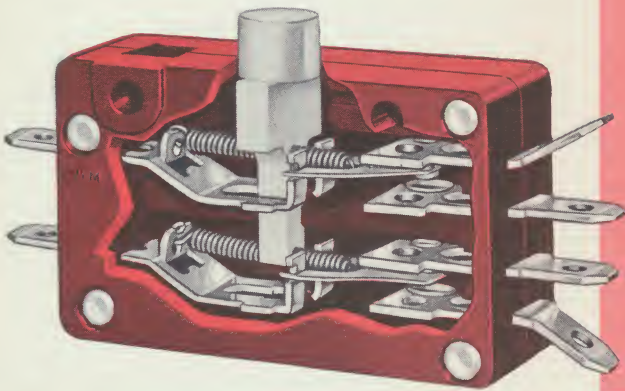
Operating Characteristics

Rest*	Max. 1.286 in.
Pretravel	Max. .365 in.
Operating Point*	.828 ± .062
Overtravel	Min. .218 in.
Movement Differential	Max. .165 in.
Operating Force	Max. 7 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—25 Amp, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

Ordering Information

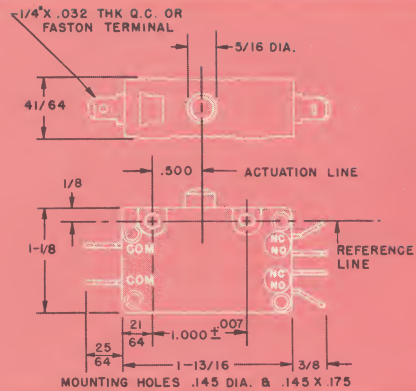
TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
COMBINATION QC & SOLDER	E14-50K	E14-51K	E14-52K



BASIC
E19-00A
DOUBLE POLE

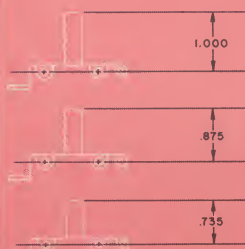
Features

- Double Pole Electrical Control
- Wide Range of Actuator Variations
- Large Overtravel



VARIATIONS

Button Variation — Button length can be varied to meet specific application requirements up to one inch from centerline of mounting holes. Nominal tooling charges will apply.

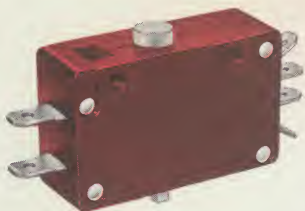


+ Operating Characteristics +	
Rest*	Max. .380 in.
Pretravel	Max. .050 in.
Operating Point*	.285 ± .030
Overtravel	Min. .080 in.
Movement Differential	Max. .015 in.
Operating Force	Max. 30 ozs.

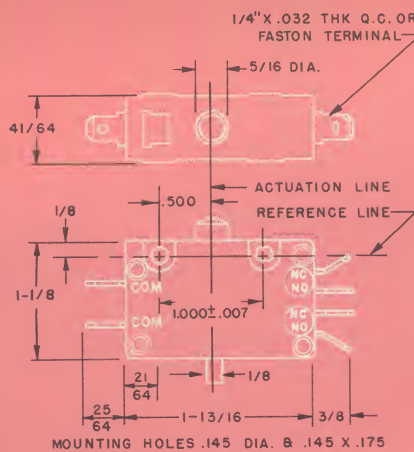
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E19-00A	E19-01A	E19-02A



RESET
E19-00R
DOUBLE POLE

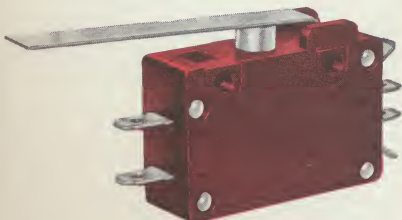


+ Operating Characteristics +	
Rest*	Max. .380 in.
Operating Button Pretravel	Max. .080 in.
Operating Point*	.269 ± .030
Overtravel (either direction)	Min. .032 in.
Movement Differential	Max. .015 in.
Operating Force	Max. 22 ozs.
Reset Button Rest	Max. .1255 in.
Reset Button Pretravel	Max. .110 in.
Reset Button Operating Point	1.156 ± .030

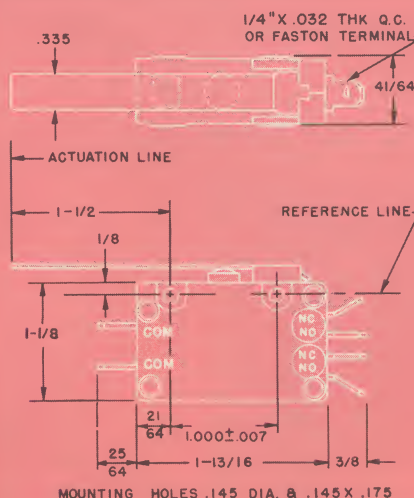
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E19-00R	E19-01R	E19-02R



LEVER
E19-00H
STANDARD FORCE

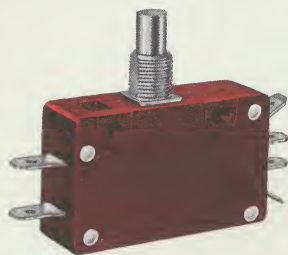


+ Operating Characteristics +	
Rest*	Max. .624 in.
Pretravel	Max. .250 in.
Operating Point*	.312 ± .062
Overtravel	Min. .187 in.
Movement Differential (each pole)	Max. .093 in.
Operating Force	Max. 7 ozs.

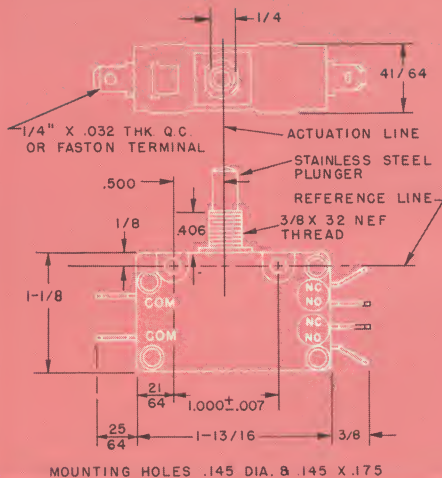
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

Ordering Information

TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E19-00H	E19-01H	E19-02H



OVERTRAVEL PUSH BUTTON
E19-00M



+ Operating Characteristics +

Rest*	Max. .875 in.
Pretravel	Max. .050 in.
Operating Point*	.812 ± .030
Overtravel	Min. .218 in.
Movement Differential (each pole)	Max. .015 in.
Operating Force	Max. 30 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—15 Amps, 125-250 VAC
3/4 H.P., 125 VAC—1 1/2 H.P., 250 VAC

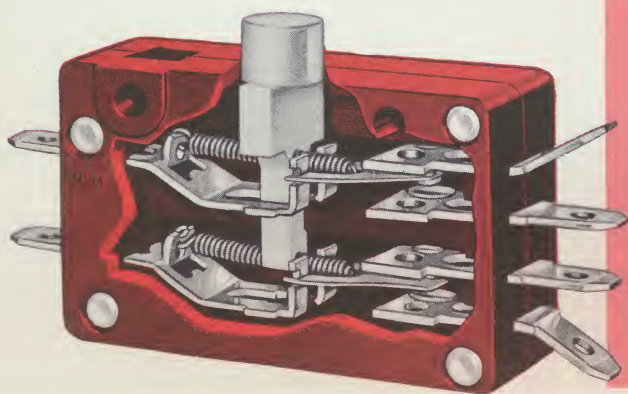
Ordering Information



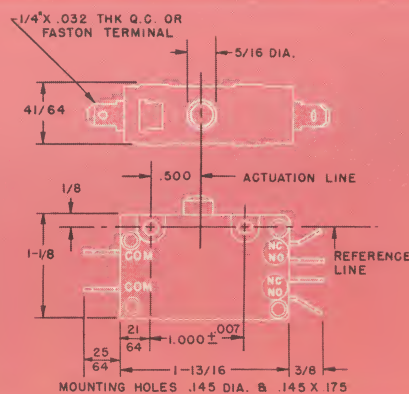
TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E19-00M	E19-01M	E19-02M

E20 SERIES

HIGH CAPACITY DOUBLE POLE Switch



BASIC
E20-00A
DOUBLE POLE



+ Operating Characteristics +

Rest*	Max. .380 in.
Pretravel	Max. .050 in.
Operating Point*	.248 ± .030
Overtravel	Min. .080 in.
Movement Differential (each pole)	Max. .015 in.
Operating Force	Max. 30 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—20 Amps, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

Ordering Information



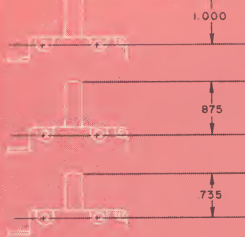
TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E20-00A	E20-01A	E20-02A

Features

- High Electrical Capacity
- Double Pole Control
- Integral Hinged Actuators

VARIATIONS

Button Variation — Button length can be varied to meet specific application requirements up to one inch from centerline of mounting holes. Nominal tooling charges will apply.



+ Operating Characteristics +

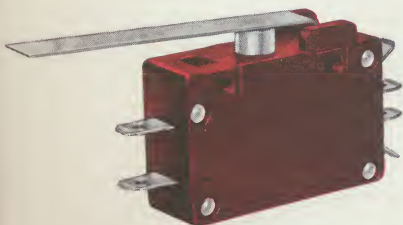
Rest*	Max. .780 in.
Pretravel	Max. .250 in.
Operating Point*	.468 ± .062
Overtravel	Min. .187 in.
Movement Differential (each pole)	Max. .093 in.
Operating Force	Max. 7 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—20 Amps, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

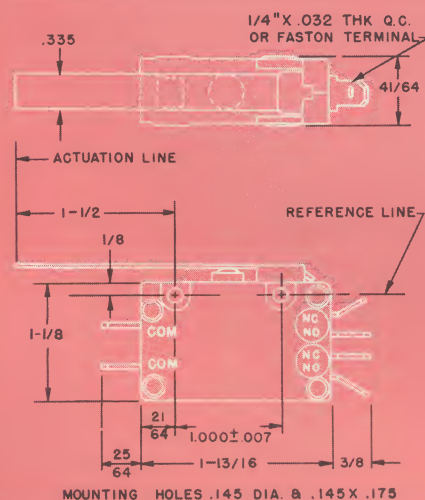
Ordering Information

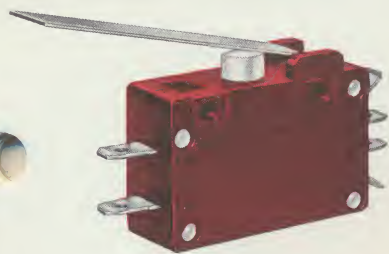


TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E20-00H	E20-01H	E20-02H

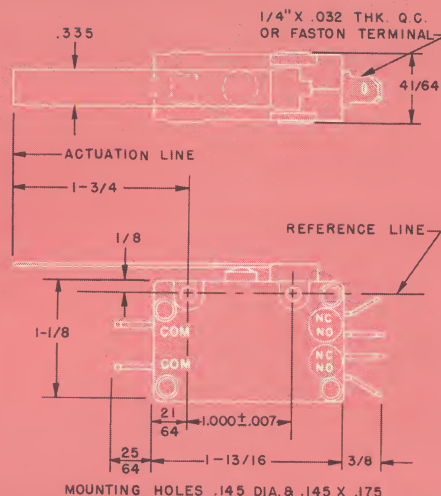


LEVER
E20-00H
STANDARD FORCE





LEVER
E20-50H
LIGHT FORCE



Operating Characteristics

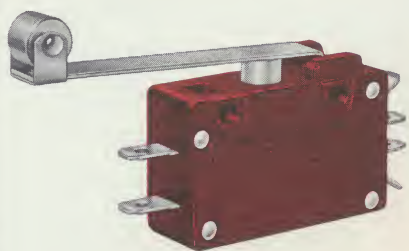
Rest*	Max. .894 in.
Pretravel	Max. .250 in.
Operating Point*	.437 ± .062
Overtravel	Min. .187 in.
Movement Differential (each pole)	Max. .140 in.
Operating Force	Max. 4 1/2 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—20 Amps, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

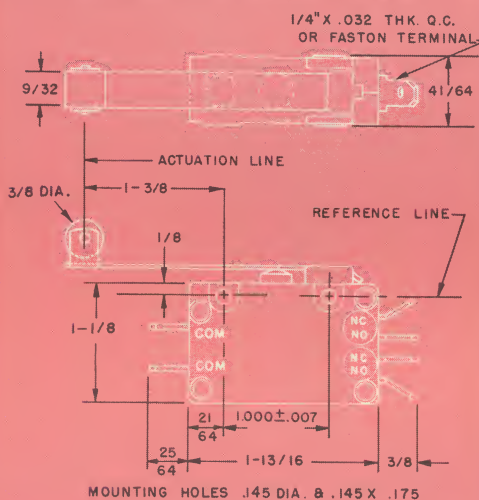
Ordering Information



TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E20-50H	E20-51H	E20-52H



ROLLER
E20-00K
STANDARD FORCE



Operating Characteristics

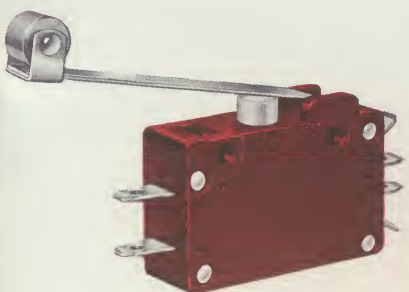
Rest*	Max. 1.171 in.
Pretravel	Max. .250 in.
Operating Point*	.860 ± .062
Overtravel	Min. .187 in.
Movement Differential (each pole)	Max. .093 in.
Operating Force	Max. 7 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—20 Amps, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

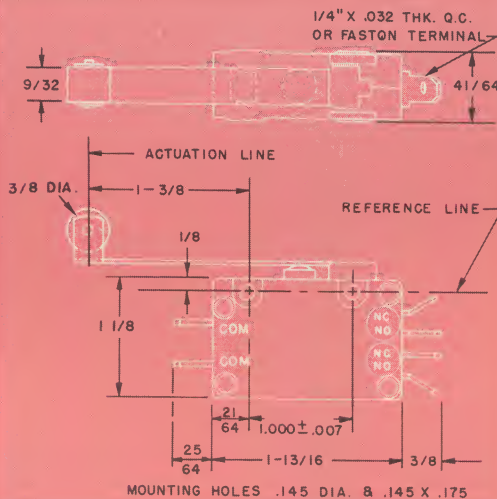
Ordering Information



TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E20-00K	E20-01K	E20-02K



ROLLER
E20-50K
LIGHT FORCE



Operating Characteristics

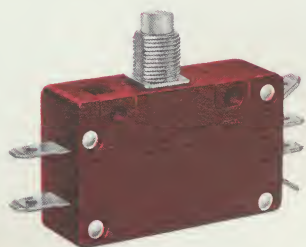
Rest*	Max. 1.286 in.
Pretravel	Max. .312 in.
Operating Point*	.828 ± .062
Overtravel	Min. .187 in.
Movement Differential (each pole)	Max. .140 in.
Operating Force	Max. 4 1/2 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—20 Amps, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

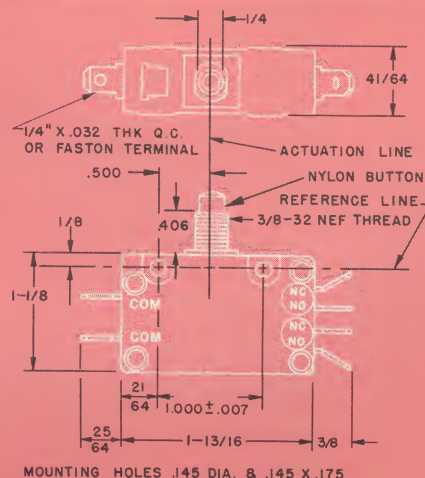
Ordering Information



TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E20-50K	E20-51K	E20-52K



PUSH BUTTON
E20-00J



Operating Characteristics

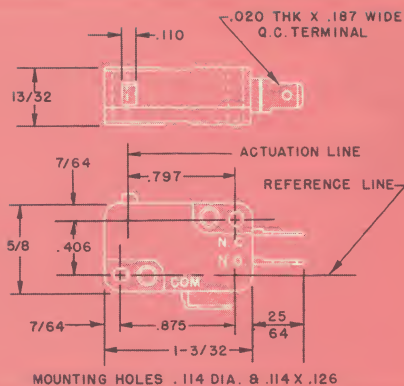
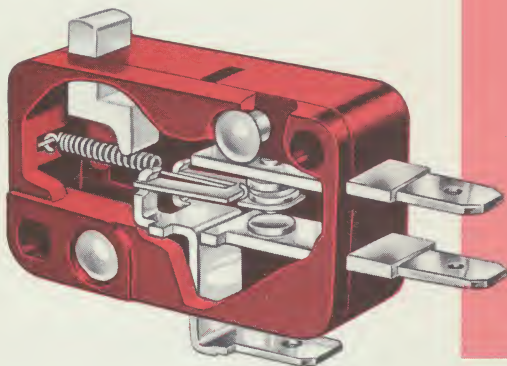
Rest*	Max. .750 in.
Pretravel	Max. .050 in.
Operating Point*	.630 ± .030
Overtravel	Min. .080 in.
Movement Differential (each pole)	Max. .015 in.
Operating Force	Max. 30 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—20 Amps, 125-250 VAC
1 H.P., 125 VAC—2 H.P., 250 VAC

Ordering Information

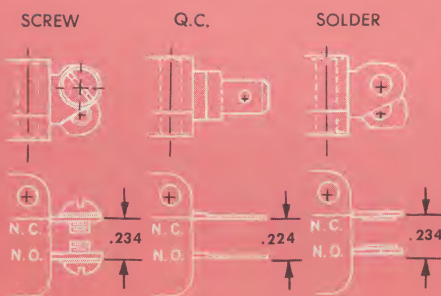


TERMINAL TYPES	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	E20-00J	E20-01J	E20-02J



BASIC
E23-00A

TERMINAL VARIATIONS



Features

- Light Force
- Long Life Coil Spring
- Integral Hinged Actuators

+ Operating Characteristics +

Rest*	Max. .635 in.
Pretravel	Max. .047 in.
Operating Point*	.578 ± .020
Overtravel	Min. .050 in.
Movement Differential	Max. .016 in.
Operating Force	Max. 6 ozs.

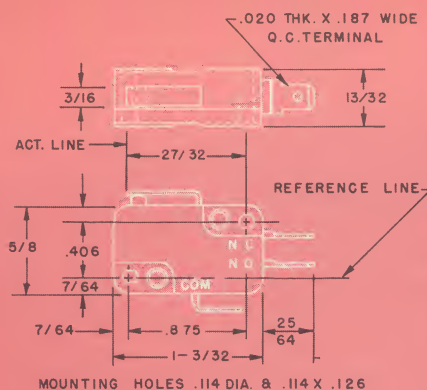
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amp, 1/4 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E23-00A	E23-01A	E23-02A
SCREW	E23-10A	E23-11A	E23-12A
SOLDER	E23-20A	E23-21A	E23-22A



LEVER
E23-00H



+ Operating Characteristics +

Rest*	Max. .660 in.
Pretravel	Max. .062 in.
Operating Point*	.600 ± .020
Overtravel	Min. .050 in.
Movement Differential	Max. .016 in.
Operating Force	Max. 6 ozs.

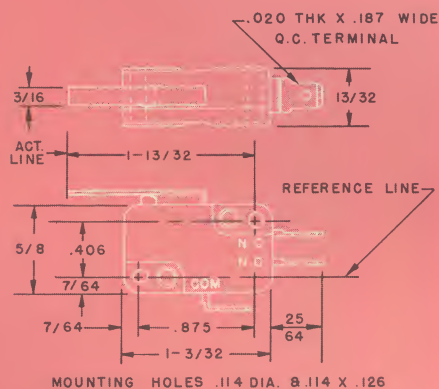
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amp, 1/4 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E23-00H	E23-01H	E23-02H
SCREW	E23-10H	E23-11H	E23-12H
SOLDER	E23-20H	E23-21H	E23-22H



EXTENDED LEVER
E23-50H



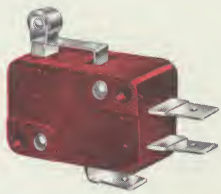
+ Operating Characteristics +

Rest*	Max. .775 in.
Pretravel	Max. .187 in.
Operating Point*	.600 ± .045
Overtravel	Min. .062 in.
Movement Differential	Max. .078 in.
Operating Force	Max. 3 ozs.

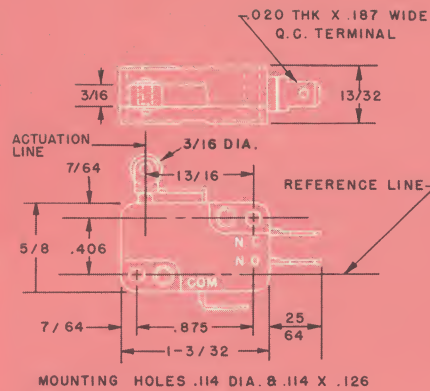
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amp, 1/4 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E23-50H	E23-51H	E23-52H
SCREW	E23-60H	E23-61H	E23-62H
SOLDER	E23-70H	E23-71H	E23-72H



ROLLER
E23-00K



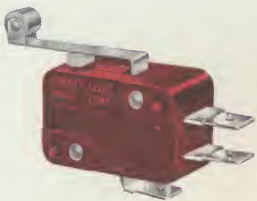
Operating Characteristics

Rest*	Max. .860 in.
Pretravel	Max. .062 in.
Operating Point*	.806 ± .045
Overtravel	Min. .050 in.
Movement Differential	Max. .016 in.
Operating Force	Max. 6 ozs.

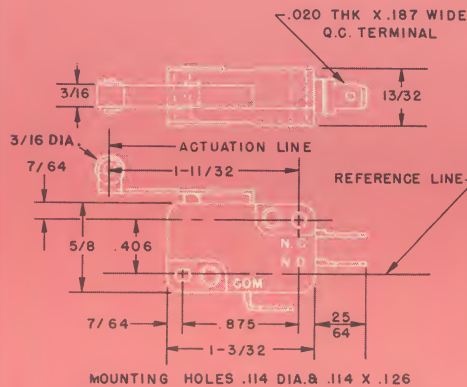
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amp, 1/4 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E23-00K	E23-01K	E23-02K
SCREW	E23-10K	E23-11K	E23-12K
SOLDER	E23-20K	E23-21K	E23-22K



EXTENDED ROLLER
E23-50K



Operating Characteristics

Rest*	Max. .975 in.
Pretravel	Max. .187 in.
Operating Point*	.806 ± .045
Overtravel	Min. .062 in.
Movement Differential	Max. .078 in.
Operating Force	Max. 3 ozs.

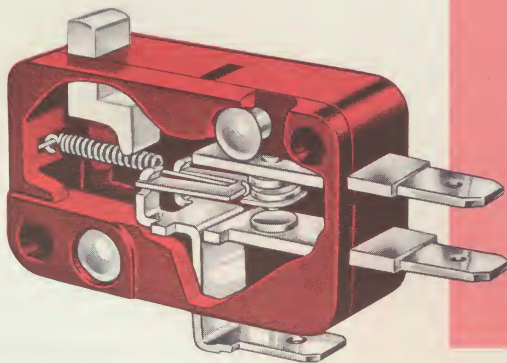
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amp, 1/4 H.P., 125-250 VAC

Ordering Information

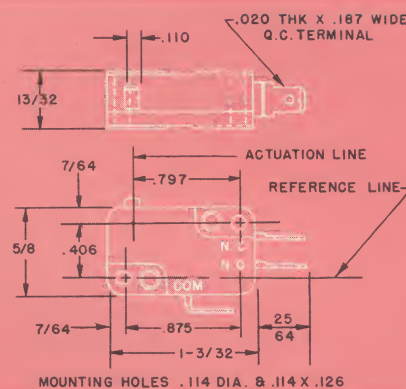
TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E23-50K	E23-51K	E23-52K
SCREW	E23-60K	E23-61K	E23-62K
SOLDER	E23-70K	E23-71K	E23-72K

E33 SERIES

STANDARD FORCE Miniature Switch



BASIC
E33-00A



Operating Characteristics

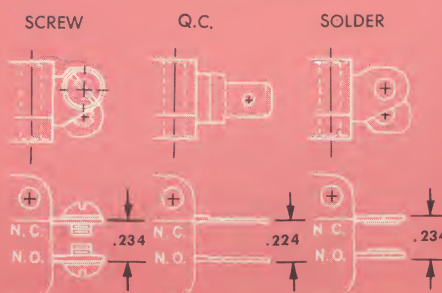
Rest*	Max. .635 in.
Pretravel	Max. .047 in.
Operating Point*	.578 ± .020
Overtravel	Min. .050 in.
Movement Differential	Max. .016 in.
Operating Force	Max. 14 ozs.

*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E33-00A	E33-01A	E33-02A
SCREW	E33-10A	E33-11A	E33-12A
SOLDER	E33-20A	E33-21A	E33-22A

TERMINAL VARIATIONS

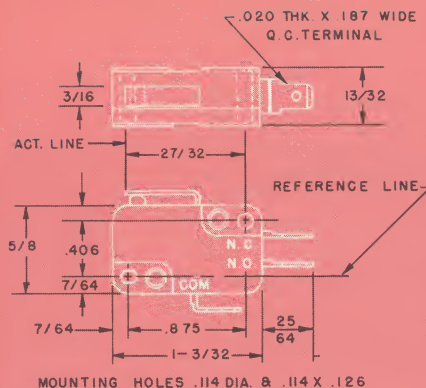


Features

- Compact Size
- Coil Spring Mechanism
- Integral Hinged Actuators



LEVER
E33-00H



+ Operating Characteristics +	
Rest*	Max. .660 in.
Pretravel	Max. .062 in.
Operating Point*	.600 ± .020
Overtravel	Min. .050 in.
Movement Differential	Max. .016 in.
Operating Force	Max. 14 ozs.

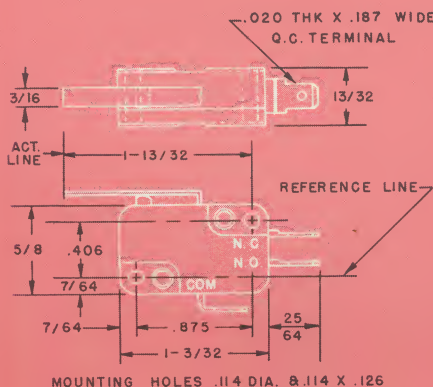
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

	TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	Q.C.	E33-00H	E33-01H	E33-02H
	SCREW	E33-10H	E33-11H	E33-12H
	SOLDER	E33-20H	E33-21H	E33-22H



EXTENDED LEVER
E33-50H

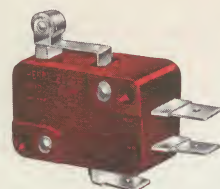


+ Operating Characteristics +	
Rest*	Max. .775 in.
Pretravel	Max. .187 in.
Operating Point*	.600 ± .045
Overtravel	Min. .062 in.
Movement Differential	Max. .078 in.
Operating Force	Max. 8 ozs.

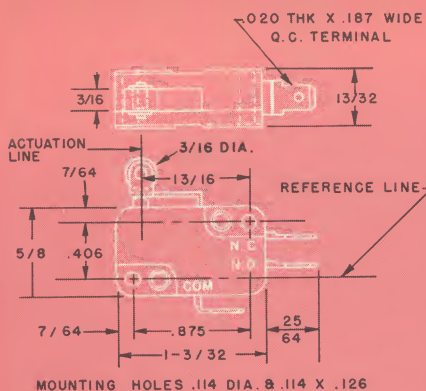
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

	TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	Q.C.	E33-50H	E33-51H	E33-52H
	SCREW	E33-60H	E33-61H	E33-62H
	SOLDER	E33-70H	E33-71H	E33-72H



ROLLER
E33-00K

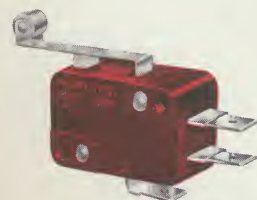


+ Operating Characteristics +	
Rest*	Max. .860 in.
Pretravel	Max. .062 in.
Operating Point*	.806 ± .045
Overtravel	Min. .050 in.
Movement Differential	Max. .016 in.
Operating Force	Max. 14 ozs.

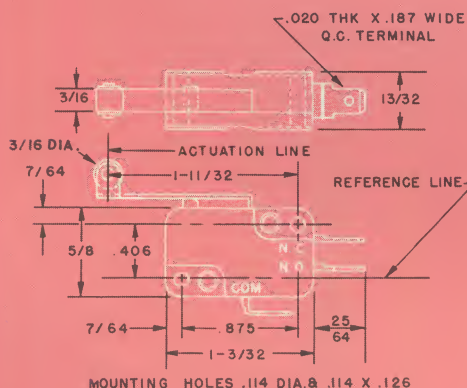
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

	TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	Q.C.	E33-00K	E33-01K	E33-02K
	SCREW	E33-10K	E33-11K	E33-12K
	SOLDER	E33-20K	E33-21K	E33-22K



EXTENDED ROLLER
E33-50K

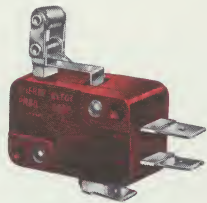


+ Operating Characteristics +	
Rest*	Max. .975 in.
Pretravel	Max. .187 in.
Operating Point*	.806 ± .045
Overtravel	Min. .062 in.
Movement Differential	Max. .078 in.
Operating Force	Max. 8 ozs.

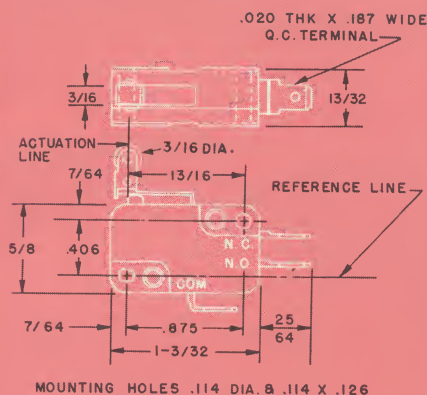
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

	TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	Q.C.	E33-50K	E33-51K	E33-52K
	SCREW	E33-60K	E33-61K	E33-62K
	SOLDER	E33-70K	E33-71K	E33-72K



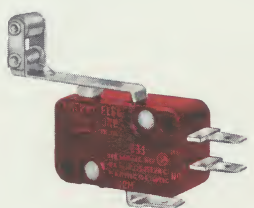
ROLLER
E33-00P
ONE WAY ACTION



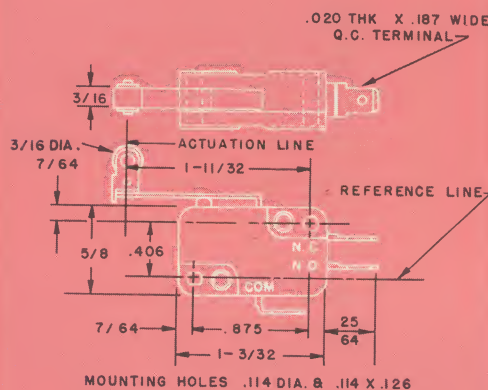
Operating Characteristics
 Rest*..... Max. 1.156 in.
 Pretravel..... Max. .062 in.
 Operating Point*..... 1.045 ± .045
 Overtravel..... Min. .062 in.
 Movement Differential..... Max. .016 in.
 Operating Force..... Max. 15 ozs.
 *Measured above reference line
 Und. Lab. Inc. and CSA approved
 RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E33-00P	E33-01P	E33-02P
SCREW	E33-10P	E33-11P	E33-12P
SOLDER	E33-20P	E33-21P	E33-22P



EXTENDED ROLLER
E33-50P
ONE WAY ACTION



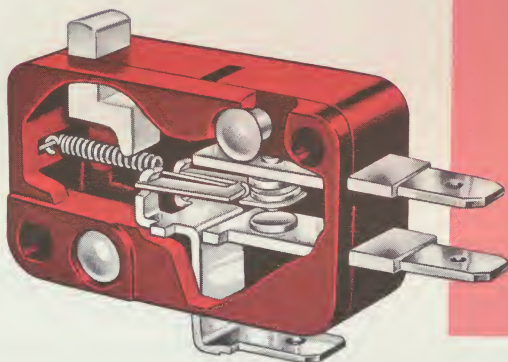
Operating Characteristics
 Rest*..... Max. 1.270 in.
 Pretravel..... Max. .187 in.
 Operating Point*..... 1.045 ± .045
 Overtravel..... Max. .062 in.
 Movement Differential..... Max. .078 in.
 Operating Force..... Max. 8 ozs.
 *Measured above reference line
 Und. Lab. Inc. and CSA approved
 RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

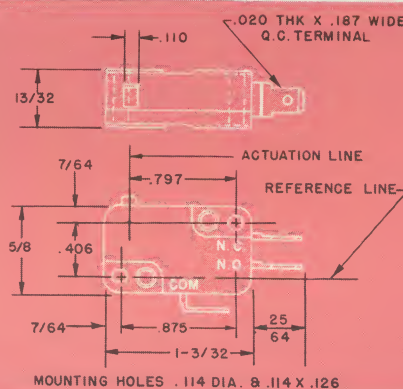
TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E33-50P	E33-51P	E33-52P
SCREW	E33-60P	E33-61P	E33-62P
SOLDER	E33-70P	E33-71P	E33-72P

E34 SERIES

HIGH CAPACITY Miniature Switch



BASIC
E34-00A

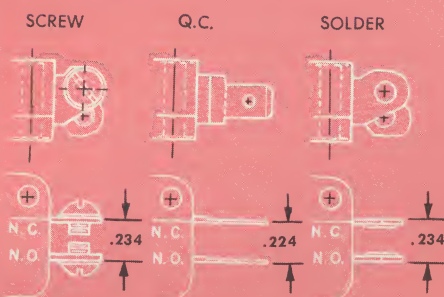


Operating Characteristics
 Rest*..... Max. .635 in.
 Pretravel..... Max. .047 in.
 Operating Point*..... .578 ± .020
 Overtravel..... Min. .050 in.
 Movement Differential..... Max. .016 in.
 Operating Force..... Max. 14 ozs.
 *Measured above reference line
 Und. Lab. Inc. and CSA approved
 RATING—15 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E34-00A	E34-01A	E34-02A
SCREW	E34-10A	E34-11A	E34-12A
SOLDER	E34-20A	E34-21A	E34-22A

TERMINAL VARIATIONS

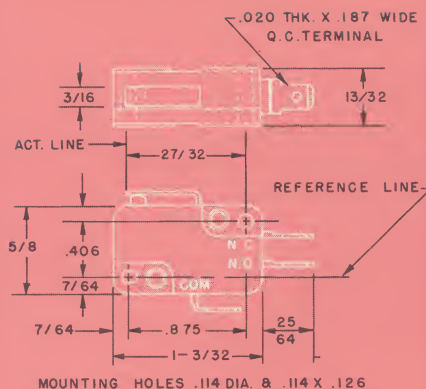


Features

- High Electrical Capacity
- Coil Spring Mechanism
- Choice of Three Terminals



LEVER
E34-00 H



+ Operating Characteristics +

Rest*	Max. .660 in.
Pretravel	Max. .062 in.
Operating Point*	.600 ± .020
Overtravel	Min. .050 in.
Movement Differential	Max. .016 in.
Operating Force	Max. 14 ozs.

*Measured above reference line

Und. Lab. Inc. and CSA approved

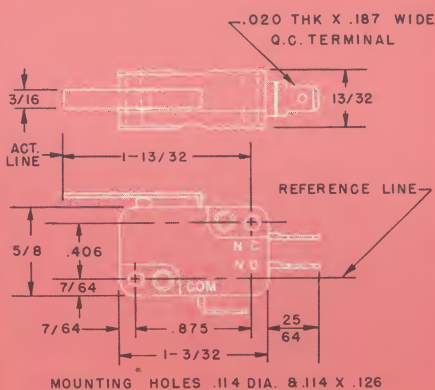
RATING—15 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E34-00H	E34-01H	E34-02H
SCREW	E34-10H	E34-11H	E34-12H
SOLDER	E34-20H	E34-21H	E34-22H



EXTENDED LEVER
E34-50H



+ Operating Characteristics +

Rest*	Max. .775 in.
Pretravel	Max. .187 in.
Operating Point*	.600 ± .045
Overtravel	Min. .062 in.
Movement Differential	Max. .078 in.
Operating Force	Max. 8 ozs.

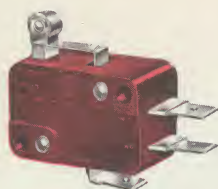
*Measured above reference line

Und. Lab. Inc. and CSA approved

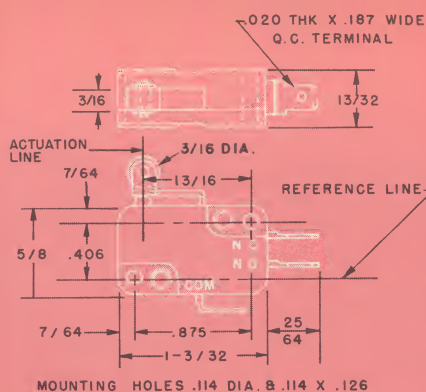
RATING—15 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E34-50H	E34-51H	E34-52H
SCREW	E34-60H	E34-61H	E34-62H
SOLDER	E34-70H	E34-71H	E34-72H



ROLLER
E34-00K



+ Operating Characteristics +

Rest*	Max. .860 in.
Pretravel	Max. .062 in.
Operating Point*	.806 ± .045
Overtravel	Min. .050 in.
Movement Differential	Max. .016 in.
Operating Force	Max. 14 ozs.

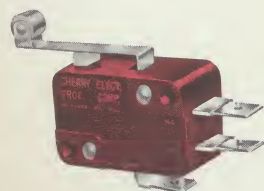
*Measured above reference line

Und. Lab. Inc. and CSA approved

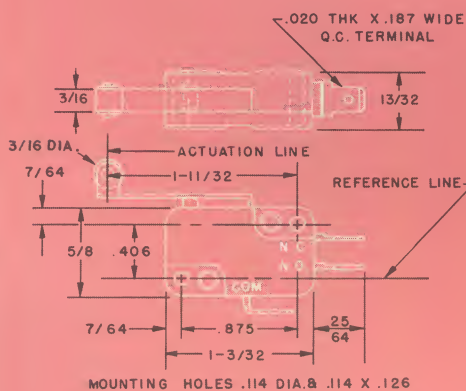
RATING—15 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E34-00K	E34-01K	E34-02K
SCREW	E34-10K	E34-11K	E34-12K
SOLDER	E34-20K	E34-21K	E34-22K



EXTENDED ROLLER
E34-50K



+ Operating Characteristics +

Rest*	Max. .975 in.
Pretravel	Max. .187 in.
Operating Point*	.806 ± .045
Overtravel	Min. .062 in.
Movement Differential	Max. .078 in.
Operating Force	Max. 8 ozs.

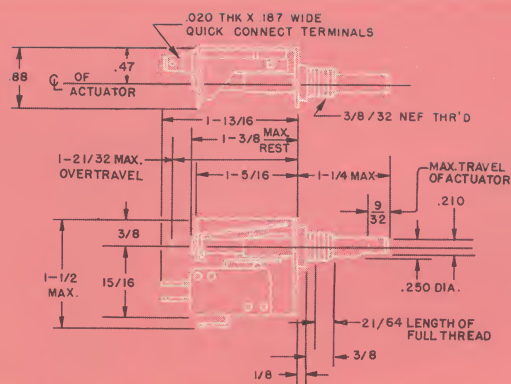
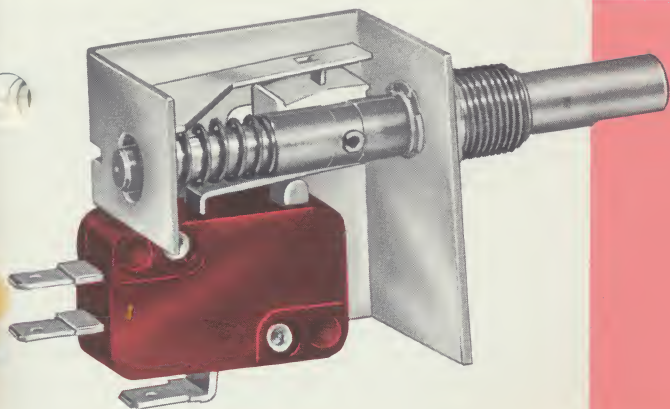
*Measured above reference line

Und. Lab. Inc. and CSA approved

RATING—15 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E34-50K	E34-51K	E34-52K
SCREW	E34-60K	E34-61K	E34-62K
SOLDER	E34-70K	E34-71K	E34-72K



**PUSH-PUSH
E33-00G
SINGLE POLE**

FEATURES:

- Maintained push-on-push off control
- Coil Spring basic switch
- Choice of 10 or 15 amp rating
- Choice of DPST or DPDT control
- QC, Screw or Solder terminals
- Self-lubricating Delrin button

PUSH-ON

PLUNGER DEPRESSED



OFF

RETURN STROKE



ON

PUSH-OFF

PLUNGER DEPRESSED



ON

RETURN STROKE



OFF

Operating Characteristics

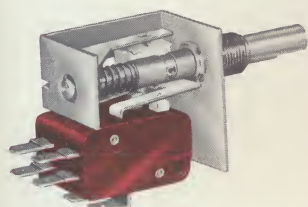
Operating Force 4 lbs. max.

Und. Lab. Inc. and CSA approved

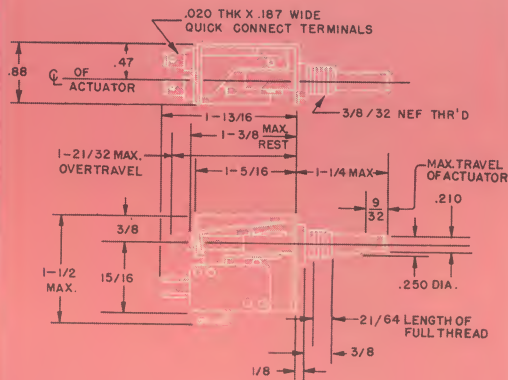
RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E33-00G	E33-01G	E33-02G
SCREW	E33-10G	E33-11G	E33-12G
SOLDER	E33-20G	E33-21G	E33-22G



**PUSH-PUSH
E33-50G
DOUBLE POLE**



Operating Characteristics

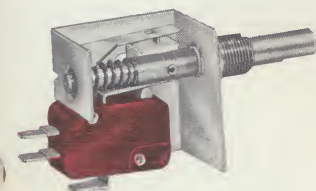
Operating Force 8 lbs. max.

Und. Lab. Inc. and CSA approved

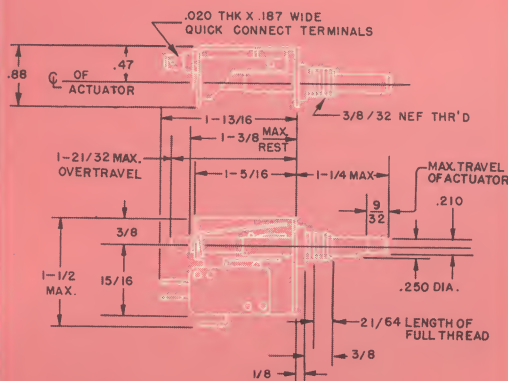
RATING—10 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	D.P.D.T.	D.P.D.T.-N.O.	D.P.D.T.-N.C.
Q.C.	E33-50G	E33-51G	E33-52G
SCREW	E33-60G	E33-61G	E33-62G
SOLDER	E33-70G	E33-71G	E33-72G



**PUSH-PUSH
E34-00G
SINGLE POLE**



Operating Characteristics

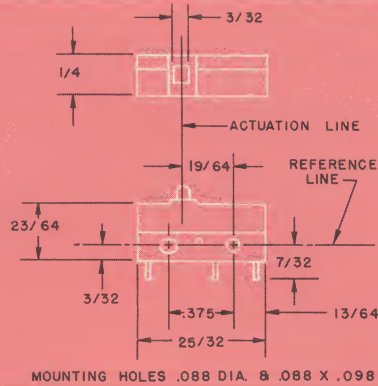
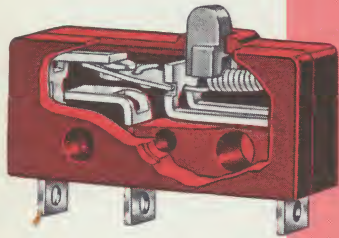
Operating Force 4 lbs. max.

Und. Lab. Inc. and CSA approved

RATING—15 Amps, 1/2 H.P., 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E34-00G	E34-01G	E34-02G
SCREW	E34-10G	E34-11G	E34-12G
SOLDER	E34-20G	E34-21G	E34-22G



BASIC
E61-10A
LIGHT FORCE SUBMINIATURE

Features

- Light Force
- Large Overtravel
- Small Compact Size



SOLDER



QUICK CONNECT

Mates with AMP Part No. 60432-1



DEEP WELL SOLDER

The exclusive hinged lever versions of the E61 series switch may be obtained in either of two lever ratios.

STANDARD LEVER RATIO

Provides operating forces and travel considered standard for this type of switch.

HIGH LEVER RATIO

Provides operating forces approximately one third as great and pretravel approximately three times as great as the standard.

+ Operating Characteristics +	
Rest*	Max. .375 in.
Pretravel	Max. .030 in.
Operating Point*	.330 ± .015
Overtravel	Min. .035 in.
Movement Differential	Max. .004 in.
Operating Force	Max. 90 g.

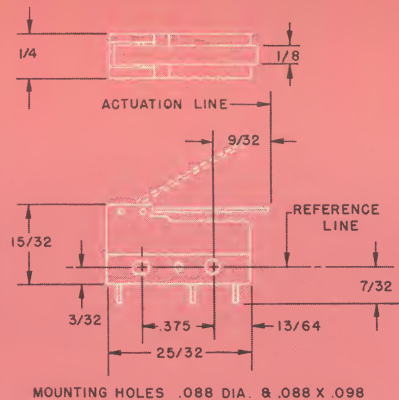
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amps, 125-250 VAC

Ordering Information

	TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	Q.C.	E61-00A	E61-01A	E61-02A
	SOLDER	E61-10A	E61-11A	E61-12A
	DEEP WELL	E61-20A	E61-21A	E61-22A



LEVER
E61-10H
STANDARD LEVER RATIO



+ Operating Characteristics +	
Rest*	Max. .500 in.
Pretravel	Max. 1/8 in.
Operating Point*	.350 ± .030
Overtravel	Min. .040 in.
Movement Differential	Max. .020 in.
Operating Force	Max. 24 g.

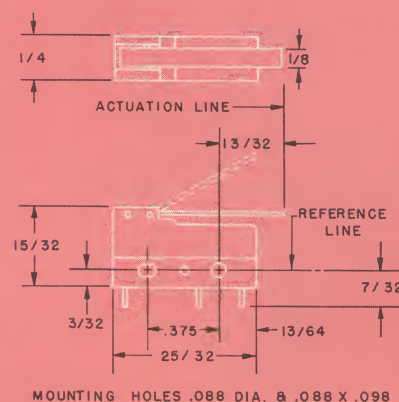
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amps, 125-250 VAC

Ordering Information

	TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	Q.C.	E61-00H	E61-01H	E61-02H
	SOLDER	E61-10H	E61-11H	E61-12H
	DEEP WELL	E61-20H	E61-21H	E61-22H



LEVER
E61-60H
HIGH LEVER RATIO

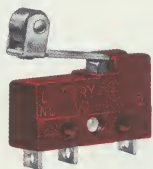


+ Operating Characteristics +	
Rest*	Max. .720 in.
Pretravel	Max. 7/16 in.
Operating Point*	.350 ± .030
Overtravel	Min. .050 in.
Movement Differential	Max. .050 in.
Operating Force	Max. 8 g.

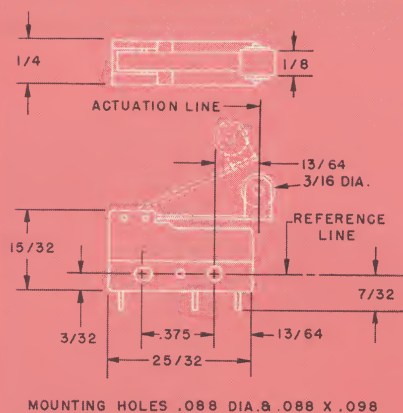
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amps, 125-250 VAC

Ordering Information

	TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	Q.C.	E61-50H	E61-51H	E61-52H
	SOLDER	E61-60H	E61-61H	E61-62H
	DEEP WELL	E61-70H	E61-71H	E61-72H



ROLLER
E61-10K
STANDARD LEVER RATIO



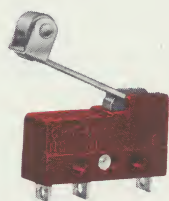
Operating Characteristics

Rest* Max. .725 in.
 Pretravel Max. $\frac{1}{64}$ in.
 Operating Point* $.570 \pm .030$
 Overtravel Min. .030 in.
 Movement Differential Max. .020 in.
 Operating Force Max. 26 g.

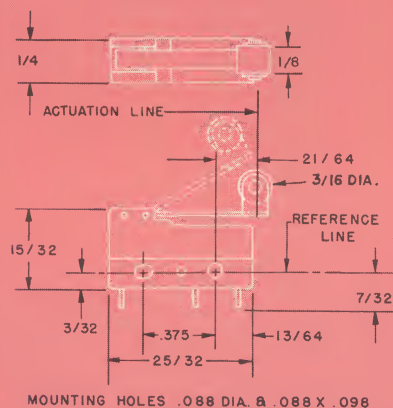
*Measured above reference line
 Und. Lab. Inc. and CSA approved
 RATING—5 Amps, 125-250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E61-00K	E61-01K	E61-02K
SOLDER	E61-10K	E61-11K	E61-12K
DEEP WELL	E61-20K	E61-21K	E61-22K



ROLLER
E61-60K
HIGH LEVER RATIO



Operating Characteristics

Rest* Max. .950 in.
 Pretravel Max. $\frac{13}{32}$ in.
 Operating Point* $.570 \pm .030$
 Overtravel Min. .040 in.
 Movement Differential Max. .050 in.
 Operating Force Max. 9 g.

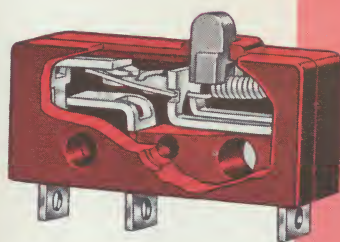
*Measured above reference line
 Und. Lab. Inc. and CSA approved
 RATING—5 Amps, 125-250 VAC

Ordering Information

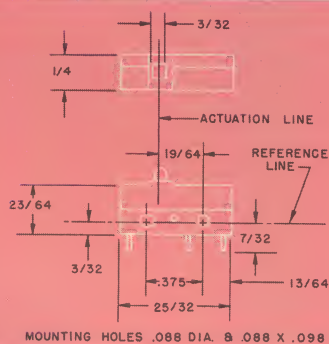
TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E61-50K	E61-51K	E61-52K
SOLDER	E61-60K	E61-61K	E61-62K
DEEP WELL	E61-70K	E61-71K	E61-72K

E62 SERIES

STANDARD FORCE Subminiature Switch



BASIC
E62-10A
SUBMINIATURE



The exclusive hinged lever versions of the E62 series switch may be obtained in either of two lever ratios.

STANDARD LEVER RATIO

Provides operating forces and travel considered standard for this type of switch.

HIGH LEVER RATIO

Provides operating forces approximately one third as great and pretravel approximately three times as great as the standard.

Operating Characteristics

Rest* Max. .375 in.
 Pretravel Max. .030 in.
 Operating Point* $.330 \pm .015$
 Overtravel Min. .035 in.
 Movement Differential Max. .004 in.
 Operating Force Max. 212 g.

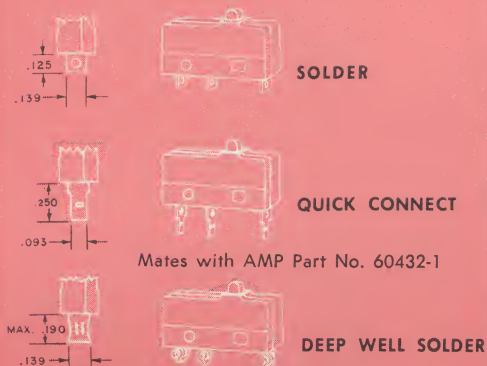
*Measured above reference line
 Und. Lab. Inc. and CSA approved
 RATING—10.1 Amps, 125-250 VAC.
 $\frac{1}{4}$ H.P. 125 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E62-00A	E62-01A	E62-02A
SOLDER	E62-10A	E62-11A	E62-12A
DEEP WELL	E62-20A	E62-21A	E62-22A

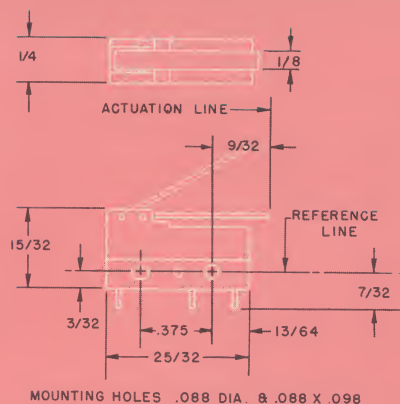
Features

- High Electrical Capacity
- Integral Hinged Actuators
- Large Overtravel





LEVER
E62-10H
STANDARD LEVER RATIO



+ Operating Characteristics +

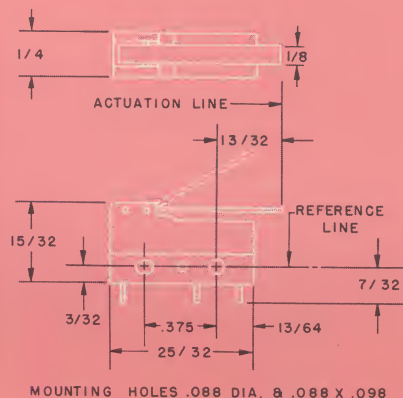
Rest* Max. .500 in.
Pretravel Max. 1/8 in.
Operating Point*350 ± .030
Overtravel Min. .040 in.
Movement Differential Max. .020 in.
Operating Force Max. 56 g.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10.1 Amps, 125-250 VAC. 1/4 H.P. 125

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E62-00H	E62-01H	E62-02H
SOLDER	E62-10H	E62-11H	E62-12H
DEEP WELL	E62-20H	E62-21H	E62-22H



LEVER
E62-60H
HIGH LEVER RATIO

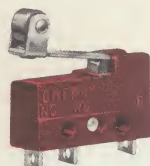


+ Operating Characteristics +

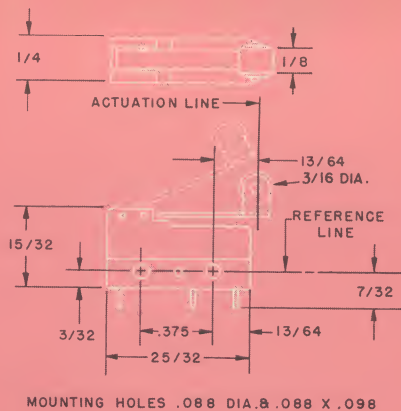
Rest* Max. .720 in.
Pretravel Max. 7/16 in.
Operating Point*350 ± .030
Overtravel Min. .050 in.
Movement Differential Max. .050 in.
Operating Force Max. 20 g.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10.1 Amps, 125-250 VAC.
1/4 H.P. 125 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E62-50H	E62-51H	E62-52H
SOLDER	E62-60H	E62-61H	E62-62H
DEEP WELL	E62-70H	E62-71H	E62-72H



ROLLER
E62-10K
STANDARD LEVER RATIO

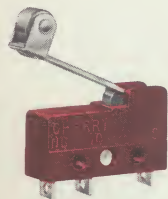


+ Operating Characteristics +

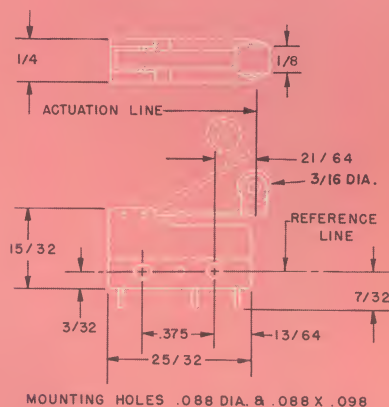
Rest* Max. .725 in.
Pretravel Max. 7/8 in.
Operating Point*570 ± .030
Overtravel Min. .030 in.
Movement Differential Max. .020 in.
Operating Force Max. 65g.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10.1 Amps, 125-250 VAC.
1/4 H.P. 125 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E62-00K	E62-01K	E62-02K
SOLDER	E62-10K	E62-11K	E62-12K
DEEP WELL	E62-20K	E62-21K	E62-22K



ROLLER
E62-60K
HIGH LEVER RATIO

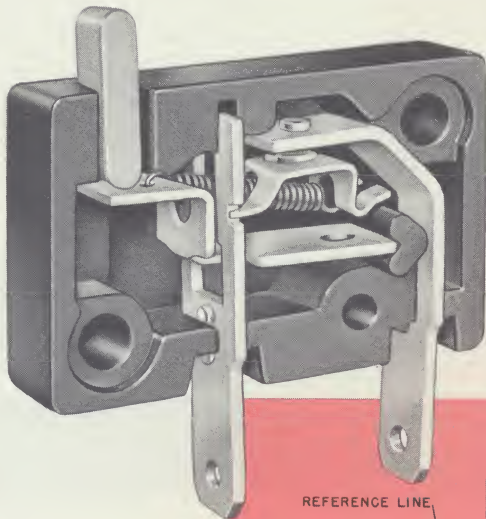


+ Operating Characteristics +

Rest* Max. .950 in.
Pretravel Max. 13/32 in.
Operating Point*570 ± .030
Overtravel Min. .040 in.
Movement Differential Max. .050 in.
Operating Force Max. 22 g.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10.1 Amps, 125-250 VAC.
1/4 H.P. 125 VAC

Ordering Information

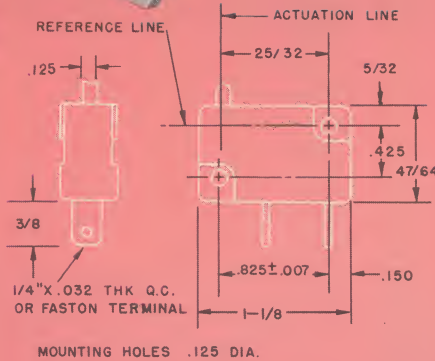
TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
Q.C.	E62-50K	E62-51K	E62-52K
SOLDER	E62-60K	E62-61K	E62-62K
DEEP WELL	E62-70K	E62-71K	E62-72K



E15-00M
and
E16-00M

Features

- Large Overtravel
- Pivot Coil Spring Mechanism
- Long Life Coil Spring



Dimensions same for E15 & E16

E15-00M

+ Operating Characteristics +
 Rest*.....Max. .344 in.
 Pre-travelMax. .075 in.
 Operating Point*......273 ± .025
 Overtravel.....Min. .090 in.
 Movement Differential.....Max. .035 in.
 Operating Force.....Max. 3 ozs.
 *Measured above reference line
 Und. Lab. approved
 RATING—6 Amps, 125 VAC
 3 Amp, 250 VAC

E16-00M

+ Operating Characteristics +
 Rest*.....Max. .344 in.
 Pre-travelMax. .075 in.
 Operating Point*......273 ± .025
 Overtravel.....Min. .090 in.
 Movement Differential.....Max. .035 in.
 Operating Force.....Max. 2 1/2 ozs.
 *Measured above reference line
 Und. Lab. approved
 RATING—2 Amps, 125 VAC, 1 Amp, 250 VAC

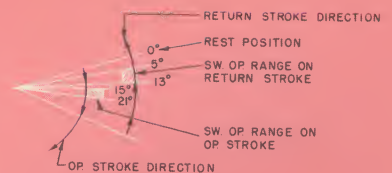
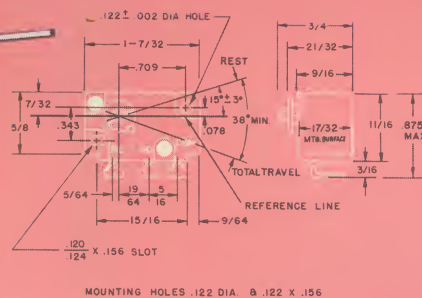
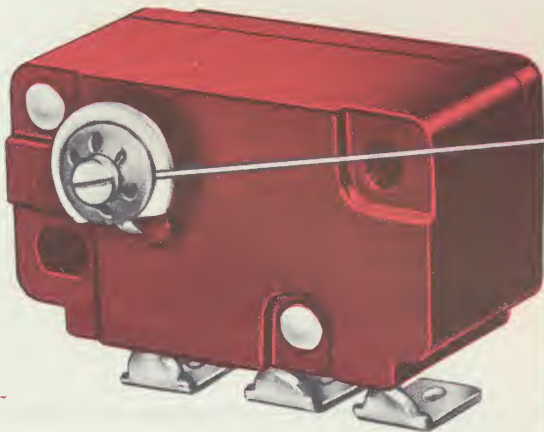
Ordering Information

TERMINAL TYPES	S.P.S.T.-N.C.	S.P.S.T.-N.O.
	E15-00M	E16-00M

E51 SERIES

CLOCKWISE

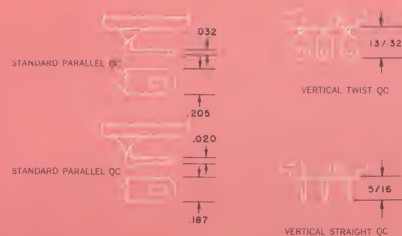
FEATHER TOUCH
Coin Switch



E51-00B

CLOCKWISE OPERATION
.205 x .032 QC TERMINALS

TERMINAL VARIATIONS



STANDARD PARALLEL QC used on E51-00B and E51-00E (.205 x .032)
 STANDARD PARALLEL QC used on E51-00R and E51-00T (.187 x .020)
 VERTICAL TWIST QC used on E51-50B and E51-50E (.205 x .032)
 VERTICAL TWIST QC used on E51-50R and E51-50T (.187 x .020)
 VERTICAL STRAIGHT QC used on E51-60B and E51-60E (.205 x .032)

Features

- Feather Touch Operation
- Rotary Actuation
- Long Life

+ Operating Characteristics +

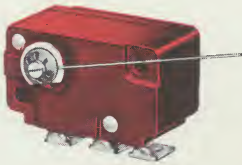
Rest*.....Max. 18°
 Pretravel.....
 Operating Point*.....Max. 21° from rest
 Overtravel.....Min. 15°
 Movement Differential.....Min. 3°
 Operating TorqueMax. 4.0 in.-g.
 *Measured above reference line
 Und. Lab. Inc. and CSA approved
 RATING—5 Amps, 125-250 VAC

Ordering Information

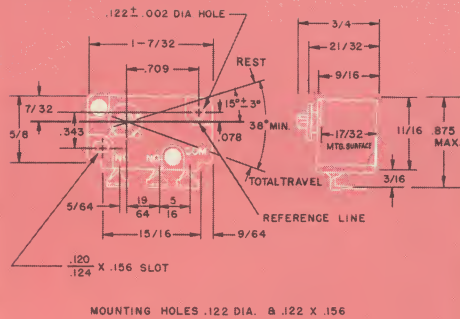
TERMINAL TYPES	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	E51-00B	E51-01B	E51-02B



COMBINATION
QC & SOLDER



E51-00R
CLOCKWISE OPERATION
.187 x .020 QC TERMINALS



Operating Characteristics
Rest* Max. 18°
Pretravel
Operating Point* Max. 21° from rest
Overtravel Min. 15°
Movement Differential Min. 3°
Operating Torque Max. 4.0 in.-g.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amps, 125-250 VAC

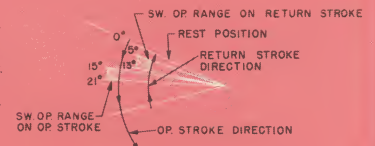
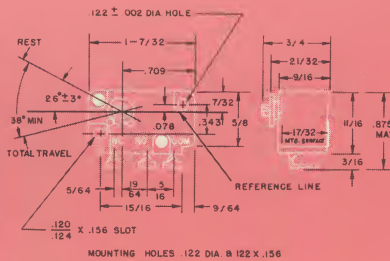
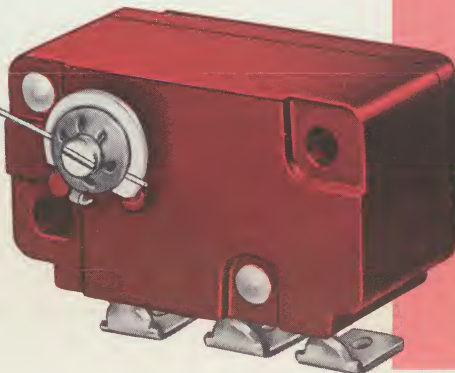
Ordering Information

TERMINALS	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
COMBINATION QC & SOLDER	E51-00R	E51-01R	E51-02R

E51 SERIES

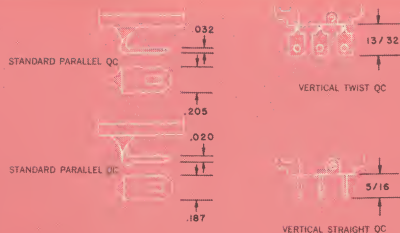
COUNTER CLOCKWISE

FEATHER TOUCH
Coin Switch



E51-00E
COUNTER CLOCKWISE
OPERATION
.205 x .032 QC TERMINALS

TERMINAL VARIATIONS



STANDARD PARALLEL QC used on E51-00B and E51-00E (.205 x .032)
STANDARD PARALLEL QC used on E51-00R and E51-00T (.187 x .020)
VERTICAL TWIST QC used on E51-50B and E51-50E (.205 x .032)
VERTICAL TWIST QC used on E51-50R and E51-50T (.187 x .020)
VERTICAL STRAIGHT QC used on E51-60B and E51-60E (.205 x .032)

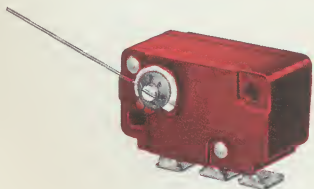
Operating Characteristics
Rest* Max. 29°
Pretravel
Operating Point* Max. 21° from rest
Overtravel Min. 15°
Movement Differential Min. 3°
Operating Torque Max. 4.0 in.-g.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amps, 125-250 VAC

Ordering Information

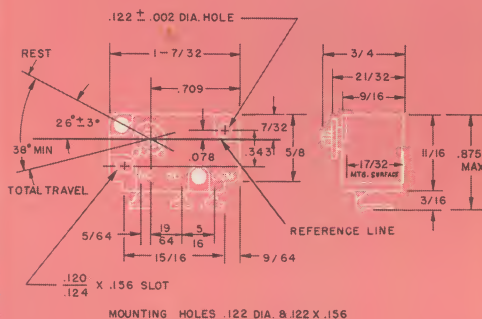
TERMINALS	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
COMBINATION QC & SOLDER	E51-00E	E51-01E	E51-02E

Features

- Feather Touch Operation
- Rotary Actuation
- Long Life



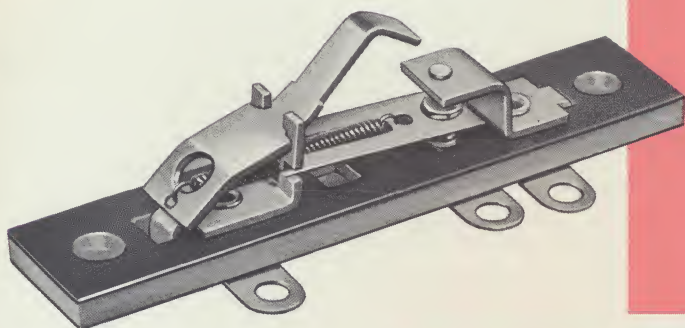
E51-00T
COUNTER CLOCKWISE
OPERATION
.187 x .020 QC TERMINALS



Operating Characteristics
Rest* Max. 29°
Pretravel
Operating Point* Max. 21° from rest
Overtravel Min. 15°
Movement Differential Min. 3°
Operating Torque Max. 4.0 in.-g.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—5 Amps, 125-250 VAC

Ordering Information

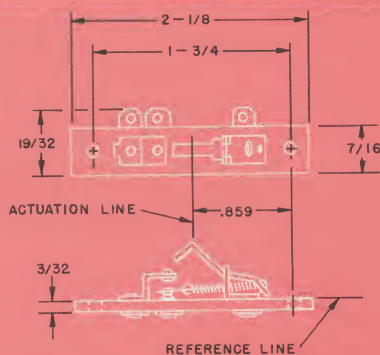
TERMINALS	S.P.D.T	S.P.S.T.-N.O.	S.P.S.T.-N.C.
COMBINATION QC & SOLDER	E51-00T	E51-01T	E51-02T



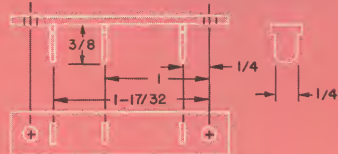
BASIC OPEN SWITCH
S23-00T
LIGHT FORCE

Features

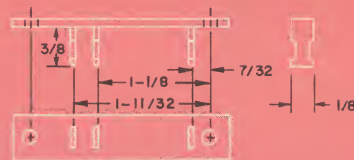
- Light Force
- Long Life Coil Spring
- Unlimited Actuator Variations



TERMINAL VARIATIONS



QUICK CONNECT TERMINAL



INTEGRAL TERMINAL

S23-00T

+ Operating Characteristics +

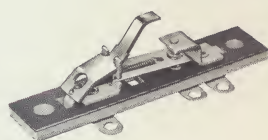
Rest*Max. .504
Pretravel
Operating Point*Min. .353
OvertravelMin. .045
Movement DifferentialMax. .070
Operating ForceMax. 3 ozs.

*Measured above reference line

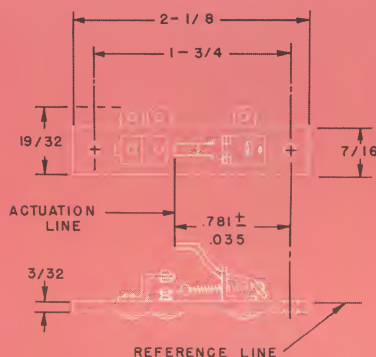
RATING—5 Amps, 1/6 H.P., 125 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
FLAT SOLDER	S23-00T	S23-01T	S23-02T
INTEGRAL SOLDER	S23-00W	S23-01W	S23-02W
Q.C.	S23-00Z	S23-01Z	S23-02Z



S23-20T
LIGHT FORCE



+ Operating Characteristics +

Rest*Max. .507
Pretravel
Operating Point*Min. .378
OvertravelMin. .040
Movement DifferentialMax. .070
Operating ForceMax. 2 3/4 ozs.

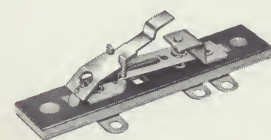
*Measured above reference line

Und. Lab. Inc. and CSA approved

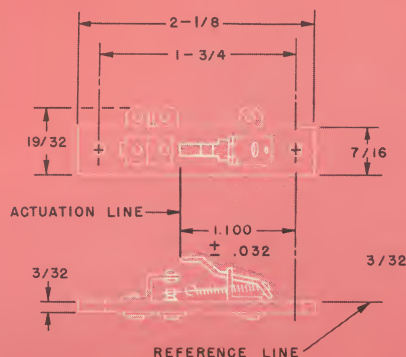
RATING—5 Amps, 1/6 H.P., 125 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
FLAT SOLDER	S23-20T	S23-21T	S23-22T
INTEGRAL SOLDER	S23-20W	S23-21W	S23-22W
Q.C.	S23-20Z	S23-21Z	S23-22Z



S23-30T
LIGHT FORCE



+ Operating Characteristics +

Rest*Max. .452
Pretravel
Operating Point*Min. .293
OvertravelMin. .040
Movement DifferentialMax. .070
Operating ForceMax. 1 1/2 ozs.

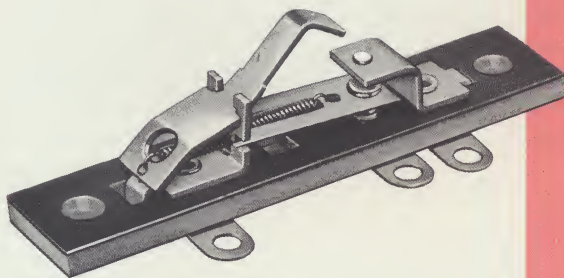
*Measured above reference line

Und. Lab. Inc. and CSA approved

RATING—5 Amps, 1/6 H.P., 125 VAC

Ordering Information

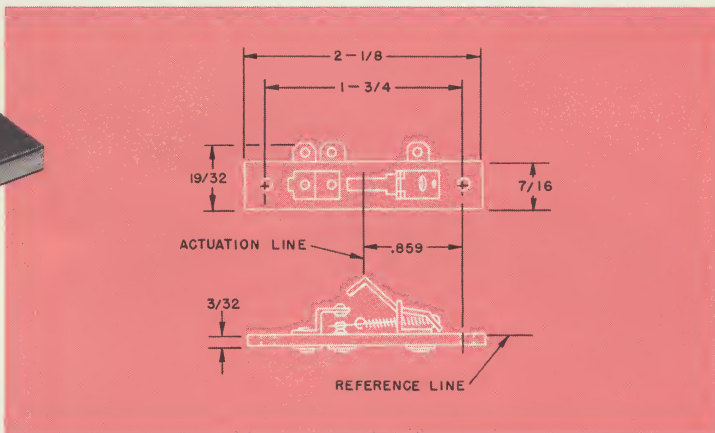
TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
FLAT SOLDER	S23-30T	S23-31T	S23-32T
INTEGRAL SOLDER	S23-30W	S23-31W	S23-32W
Q.C.	S23-30Z	S23-31Z	S23-32Z



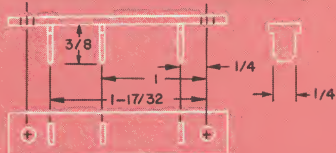
BASIC OPEN SWITCH
S25-00T
STANDARD FORCE

Features

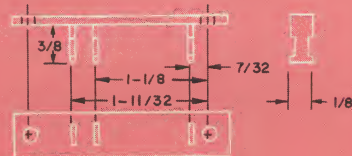
- Panel Variations available
- Unlimited Actuator Variations
- Coil Spring Mechanism



TERMINAL VARIATIONS



QUICK CONNECT TERMINAL



INTEGRAL TERMINAL

+ Operating Characteristics +

Rest* Max. .504
Pre-travel
Operating Point* Min. .353
Overtravel Min. .045
Movement Differential Max. .070
Operating Force Max. 9 1/2 ozs.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 125 VAC—5 Amps, 250 VAC
1/3 H.P. 125/250 VAC

Ordering Information

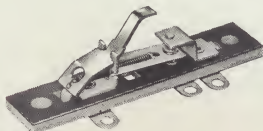
TERMINAL TYPES	S.P.D.T.	S.P.D.T.-N.O.	S.P.D.T.-N.C.
FLAT SOLDER	S25-00T	S25-01T	S25-02T
INTEGRAL SOLDER	S25-00W	S25-01W	S25-02W
Q.C.	S25-00Z	S25-01Z	S25-02Z

+ Operating Characteristics +

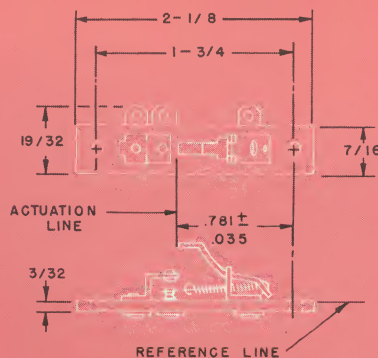
Rest* Max. .507
Pretravel
Operating Point* Min. .378
Overtravel Min. .040
Movement Differential Max. .070
Operating Force Max. 10 ozs.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 125 VAC—5 Amps, 250 VAC
1/3 H.P. 125/250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
FLAT SOLDER	S25-20T	S25-21T	S25-22T
INTEGRAL SOLDER	S25-20W	S25-21W	S25-22W
Q.C.	S25-20Z	S25-21Z	S25-22Z



S25-20T
STANDARD FORCE

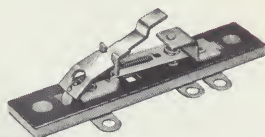


+ Operating Characteristics +

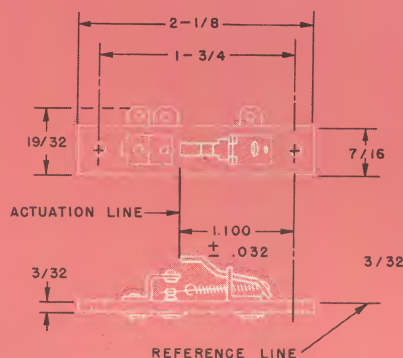
Rest* Max. .452
Pretravel
Operating Point* Min. .293
Overtravel Min. .040
Movement Differential Max. .070
Operating Force Max. 5 ozs.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 125 VAC—5 Amps, 250 VAC
1/3 H.P. 125/250 VAC

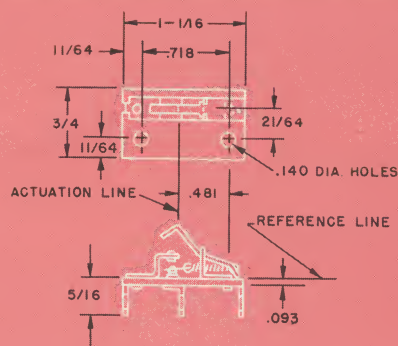
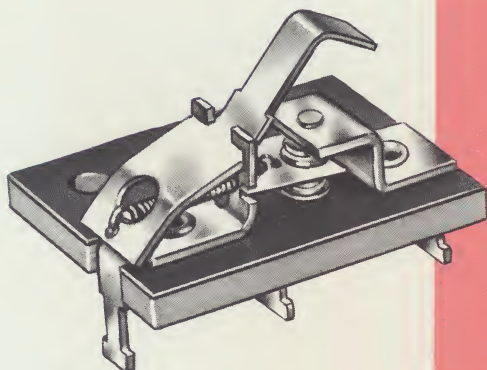
Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
FLAT SOLDER	S25-30T	S25-31T	S25-32T
INTEGRAL SOLDER	S25-30W	S25-31W	S25-32W
Q.C.	S25-30Z	S25-31Z	S25-32Z



S25-30T
STANDARD FORCE





S30-00W
MINIATURE OPEN SWITCH

Features

- Compact Size
- Coil Spring Mechanism
- Line of Actuator Variations

Nylon
Insulators



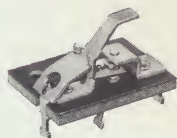
Also available on series S23 and S25 switches

+ Operating Characteristics +

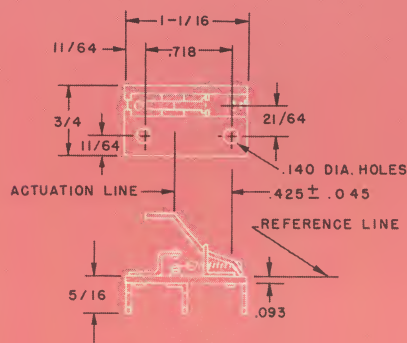
Rest*.....Max. .533
Pretravel.....
Operating Point*.....Min. .378
Overtravel.....Min. .045
Movement Differential.....Max. .085
Operating Force.....Max. 7 1/2 ozs.
*Measured above reference line
RATING—10 Amps, 125 VAC—5 Amps, 250 VAC
1/3 H.P., 125/250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
FLAT SOLDER	S30-00T	S30-01T	S30-02T
INTEGRAL SOLDER	S30-00W	S30-01W	S30-02W
Q.C.	S30-00Z	S30-01Z	S30-02Z



S30-20W
MINIATURE OPEN SWITCH



+ Operating Characteristics +

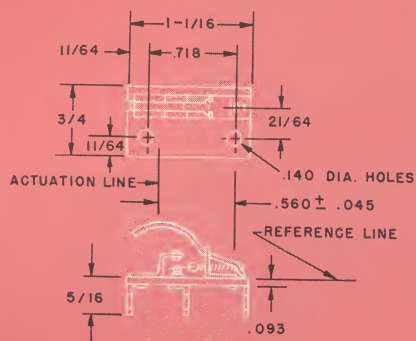
Rest*.....Max. .526
Pretravel.....
Operating Point*.....Min. .382
Overtravel.....Min. .080
Movement Differential.....Max. .085
Operating Force.....Max. 7 1/2 ozs.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 125 VAC—5 Amps, 250 VAC
1/3 H.P., 125/250 VAC

Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
FLAT SOLDER	S30-20T	S30-21T	S30-22T
INTEGRAL SOLDER	S30-20W	S30-21W	S30-22W
Q.C.	S30-20Z	S30-21Z	S30-22Z



S30-50W
MINIATURE OPEN SWITCH



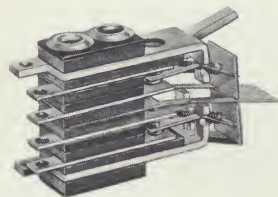
+ Operating Characteristics +

Rest*.....Max. .520
Pre-travel.....
Operating Point*.....Min. .360
Overtravel.....Min. .100
Movement Differential.....Max. .085
Operating Force.....Max. 6 oz.
*Measured above reference line
Und. Lab. Inc. and CSA approved
RATING—10 Amps, 125 VAC—5 Amps, 250 VAC
1/3 H.P., 125/250 VAC

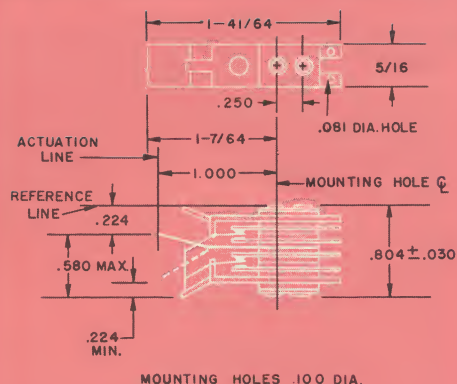
Ordering Information

TERMINAL TYPES	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
FLAT SOLDER	S30-50T	S30-51T	S30-52T
INTEGRAL SOLDER	S30-50W	S30-51W	S30-52W
Q.C.	S30-50Z	S30-51Z	S30-52Z

S36 SERIES



DOUBLE POLE
S36-20E
RESET ACTION



DOUBLE POLE Stack Switch

+ Operating Characteristics +	
Rest*	Max. .224
Pretravel	Max. .471 in.
Operating Point*	Max. .471 in.
Overtravel	Min. .075 in.
Movement Differential	Max. .125 in.
Operating Force	Max. 3 ozs.

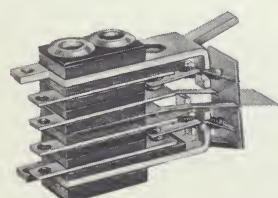
*Measured above reference line (either direction)

Und. Lab. Inc. approved
RATING—7½ Amps, 125 VAC
5 Amps, 250 VAC—1/3 H.P., 125-250 VAC

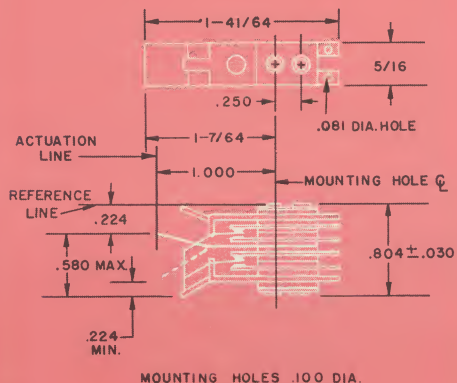
Ordering Information



TERMINAL TYPE	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	S36-20E	S36-21E	S36-22E



DOUBLE POLE
S36-40E
MOMENTARY ACTION



+ Operating Characteristics +	
Rest*	Max. .224
Pretravel	Max. .471 in.
Operating Point*	Max. .471 in.
Overtravel	Min. .075 in.
Movement Differential	Max. .125 in.
Operating Force	Max. 3 ozs.

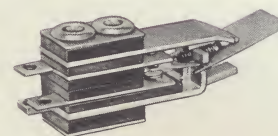
*Measured above reference line
Und. Lab. Inc. approved
RATING—7½ Amps, 125 VAC
5 Amps, 250 VAC—1/3 H.P., 125-250 VAC

Ordering Information

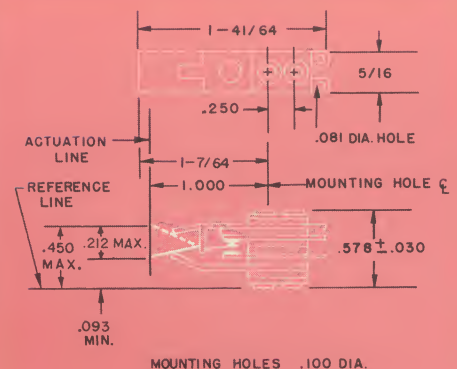


TERMINAL TYPE	D.P.D.T.	D.P.S.T.-N.O.	D.P.S.T.-N.C.
	S36-40E	S36-41E	S36-42E

S37 SERIES



SINGLE POLE
S37-10E
RESET ACTION



SINGLE POLE Stack Switch

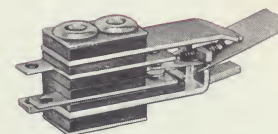
+ Operating Characteristics +	
Rest*	Max. .450 in.
Pretravel	Max. .212 in.
Operating Point*	Max. .212 in.
Overtravel	Min. .060 in.
Movement Differential	Max. .140 in.
Operating Force	Max. 2 ozs.

*Measured above reference line (either direction)
Und. Lab. Inc. approved
RATING—7½ Amps, 125 VAC
5 Amps, 250 VAC—1/3 H.P., 125-250 VAC

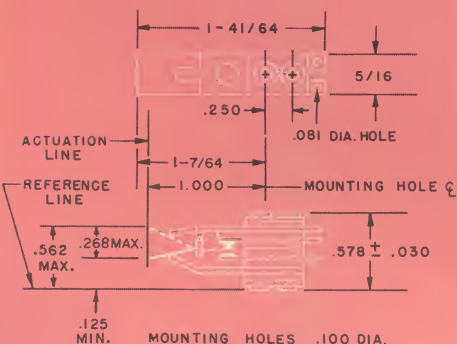
Ordering Information



TERMINAL TYPE	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	S37-10E	S37-11E	S37-12E



SINGLE POLE
S37-20E
MOMENTARY ACTION



+ Operating Characteristics +	
Rest*	Max. .562 in.
Pretravel	Max. .268 in.
Operating Point*	Max. .268 in.
Overtravel	Min. .060 in.
Movement Differential	Max. .140 in.
Operating Force	Max. 2 ozs.

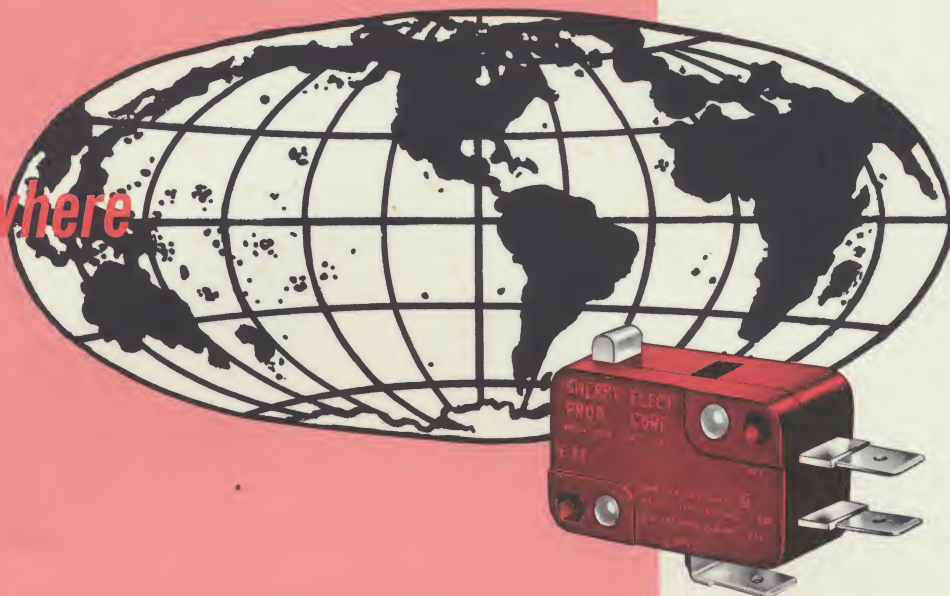
Und. Lab. Inc. approved
RATING—7½ Amps, 125 VAC
5 Amps, 250 VAC—1/3 H.P., 125-250 VAC

Ordering Information



TERMINAL TYPE	S.P.D.T.	S.P.S.T.-N.O.	S.P.S.T.-N.C.
	S37-20E	S37-21E	S37-22E

CHERRY everywhere



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D. H. BONNELLA & SON, LTD.
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OUR PRODUCTS ARE MANUFACTURED UNDER ONE OR
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UNITED STATES PATENTS

2,758,171	2,853,700	3,001,042	3,073,923
2,790,865	2,905,780	3,019,319	3,098,903
2,790,866	2,905,781	3,032,622	3,098,904
2,805,299	2,993,101	3,032,623	3,098,905
2,810,030	2,993,102	3,050,599	3,141,075
2,821,587	2,999,138	3,056,002	

FOREIGN PATENTS

West Germany	1,154,546
France	1,341,144
	1,334,642
	1,361,230
Great Britain	911,805
Canada	670,011
	676,861

OTHER PATENTS AND APPLICATIONS PENDING
THROUGHOUT THE WORLD

Cherry's trademark has been
registered throughout the world



Cherry Electrical Products Corporation

1650 Old Deerfield Road • Highland Park, Illinois 60036

Phone (312) 432-8182 • TWX 312-433-2114 • Cable Address: Cherry Highland Park

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